

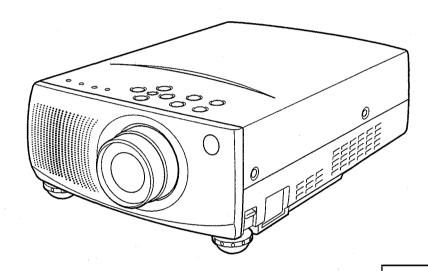
FILE NO.

SERVICE MANUAL Multimedia Projector

Model No. PLV-30

U.S.A., Canada, Europe, Asia, Africa U.K

Original Version



Chassis No. M4G-3000

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

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SAFETY PRECAUTIONS

WARNING:

The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

- 1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.
- 2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.
- 3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark Δ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.

Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages(15kV - 25kV) at its starts.

Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

■ Specifications

Projector Type	Multi-media Projector
Dimensions (W x H x D)	7.44" x 2.93" x 11.42" (189mm x 74.5mm x 290mm)
Net Weight	5.51 lbs (2.5 kg)
LCD Panel System	0.7" TFT Active Matrix type, 3 panels
Panel Resolution	800 x 600 dots
Number of Pixels	1,440,000 (800 x 600 x 3 panels)
Color System	6 color system (PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N)
High Definition TV SIgnals	480i, 480p, 575i, 575p, 720p. 1035i and 1080i
Scanning Frequency	H-sync. 15 ~ 80kHz, V-sync. 50 ~ 100Hz
Projection Image Size (diagonal)	Adjustable from 30" to 200"
Horizontal Resolution	500 TV lines
Projection Lens	F 2.0 ~ 2.3 lens with f 28mm ~ 33.6mm Manual zoom and focus
Throw Distance	4.6' ~ 26.3' (1.4m ~ 8.0m)
Projection Lamp	120watt type
AV Input Jacks	RCA Type x 3 (Video/Y, Cb/Pb, Cr/Pr) and Mini DIN 4 pin x 1(S-Video)
AV Audio Input Jack	Mini Jack (stereo)
Computer Input Jack	(VGA) HDB15 Terminal x 1
Computer Audio Jack	Mini Jack (stereo)
Service Port Jack	Mini DIN 8 pin x 1
Audio Output Jack	Mini Jack (stereo)
Internal Audio Amp.	1W RMS (monaural)
Built-in Speaker	1 speaker, 1.57" x 1.18" (40mm x 30mm)
Feet Adjustment	0° to 7.6°
Voltage and	AC 100 ~ 120V (2.2A Max. Ampere), 50/60Hz (The U.S.A and Canada)
Power Consumption	AC 200 ~ 240V (1.1A Max. Ampere), 50/60Hz (Continental Europe and The UK.)
Operating Temperature	41°F ~ 95°F (5°C ~ 35°C)
Storage Temperature	14°F ~ 140°F (-10°C ~ 60°C)
Remote Control Transmitters	Wireless Remote Control, batteries AA, UM3 or R06 Type x 2

• The specifications are subject to change without notice.



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

■ Note on Servicing

When you carry out the electrical, optical service adjustment or repairing with cabinet top removal, it should be done under the service conditions listed below. If you can not keep the one of following conditions, the projector turns off automatically by operating the protection circuit.

Service Conditions:

Operating Temperature : 41°F ~ 81°F (5°C ~ 30°C)

Fans Control : Maximum

AC Power Supply : 100 ~ 120V or 200V ~ 240V

To set the Fan Control to maximum, follow the Fan Control Setting Procedure below;

Fan Control Setting Procedure

- 1. Enter to the service mode.
- 2. Select adjustment item no.<29> and change data value to <0> to <1>. Now the cooling fans operate in maximum.
- 3. Exit from the service mode.

After finishing the works, restore the service data to <0> following to the steps 1 to 3.

* Please refer to the "Service Adjustment Menu Operation" described on page 23 for how to entering the service mode and changing the service data.

■ Adjustments after Parts Replacement

: Adjustment necessary O : Check necessary

					Disass	embly	/ Rep	laced Part	s	
			Integrator lens	Relay Lens	Pola R	rized g G	lass B	Power Board	Component Board	Main Board
	Integrator Lens Adjustment	0	•							
tu	Relay Lens Adjustment	0		•						
Optical Adjustments	Contrast Adjustment									
Opt	R-Contrast adjustment				•					
Adj	G-Contrast adjustment					•				
	B-Contrast adjustment						•			
	Output voltage adjustment							•		
	FAN voltage adjustment								•	• •
	PC offset adjustment									•
	PC gain adjustment									• .
ts	Component gain adjustment			-						•
Jen	AV gain adjustment									•
stm	NRS Adjustment									•
d d	Signal center adjustment									•
Electrical Adjustments	PC Gamma off video adjustment									•
rice	PC/AV signal adjustment-1									. •
ect	PC/AV signal adjustment-2									•
	S/H clock adjustment									•
	Common center adjustment	•								•
	White balance adjustment	. 0								0
	Black balance adjustment	0.								0

■ Circuit Protections

This projector is equipped with the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Fuse

The fuse is located inside of the projector. When either the LAMP indicator or the READY indicator is not illuminated, fuse may be opened. Check the fuse as following steps.

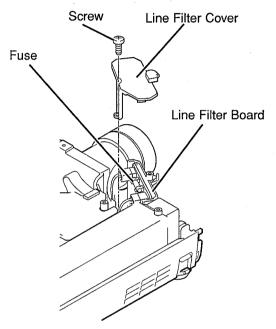
It should be used the specified fuse as follows;

Fuse Part No.: 423 022 2102 TYPE T4.0AH 250V FUSE **LITTLE FUSE INC. TYPE 215004**

How to replace the fuse

- 1. Remove the cabinet top and main board following to "Mechanical Disassemblies".
- 2. Remove a screw and the line filter cover upward.
- 3. Remove the fuse from fuse holder.

To install the fuse, take reversed step in the above.



Thermal switch

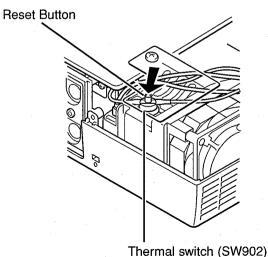
There is the thermal switch (SW902) inside of the projector to prevent the internal temperature from rising abnormally. When the internal temperature reaches near 100°C, turn off the AC main power supply automatically. The thermal switch is not reset to normal automatically even if the internal temperature becomes normal. Reset the thermal switch following procedure.

Check the resistance between terminals of thermal switch by using the tester. If it has high impedance, thermal switch may be in operative.

How to reset the thermal switch

- 1. Remove the cabinet top following to "Mechanical Disassemblies".
- 2. Press the reset button on the thermal switch.

Before press the reset button, disconnect the AC cord from the projector.



Warning temperature and power failure protection

The TEMP WARNING indicator flashes red and the projector will automatically turn off when the internal temperature of the projector exceeds the normal temperature or when stopping cooling fans or when the internal power supply lines are failed.

Check the following possible causes and wait until stopping the TEMP WARNING indicator flashing.

Possible causes

- Air filter is clogged with dust particles. Remove dust from the air filter by following instructions in the "Air filter care and cleaning" below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 °C or 41 to 95°F)

If the TEMP WARNING indicator still continues to flash, there may be defects on cooling fans or power supply circuits. Please check fan operation and power supply lines referring to the "Power Supply Lines Chart".

Air filter care and cleaning

The removable air filters prevents dust from accumulation on the surface of the projection lens and projection mirror. Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and reduce the life of the projector.

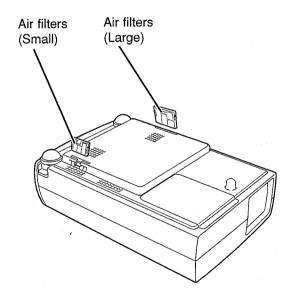
To clean up the air filters, follow the cleaning procedure below:

- 1. Turn the power off, and disconnect the AC power cord from the AC outlet.
- Turn the projector up side down and remove 2 air filters (Large and Small) by pulling the latches of them upward.
- Clean the air filters with brush or wash out the dust and particles.
- Replace each air filter properly. Make sure that the air filters are fully inserted.

CAUTION:

Do not operate the projector with the air filter removed. The dust is stuck on the LCD panel and the mirror, and it may spoil the fine picture image.

Do not put the small parts into the air filter intake vents. It result in the malfunction of the projector. The air filter is small parts. Take care that children don't eat or swallow it.



RECOMMENDATION

We recommend to avoid dusty, smoky place for operating the projector. Using in dusty place may cause the picture of poor quality.

When using under the dusty or smoky conditions, dust may accumulate on the LCD panel and lens inside it, and may resultantly be projected on the screen together with the picture.

When the above symptoms are noticed, please clean up the LCD panel and lens following to the "Cleaning Method".

■ Mechanical Disassemblies

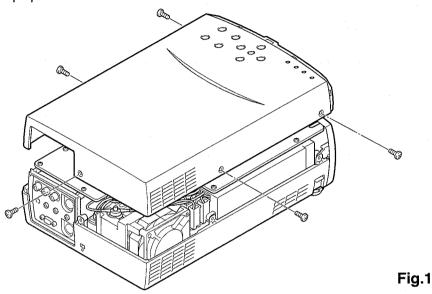
Mechanical disassemble should be made following procedures in numerical order. Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:

The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

1, CABINET TOP REMOVAL

Remove 5 screws and pull cabinet top upward.



2. CABINET FRONT AND SPEAKER REMOVAL

1) Remove 4 screws (2 top and 2 bottom) A and take the cabinet front off forward.

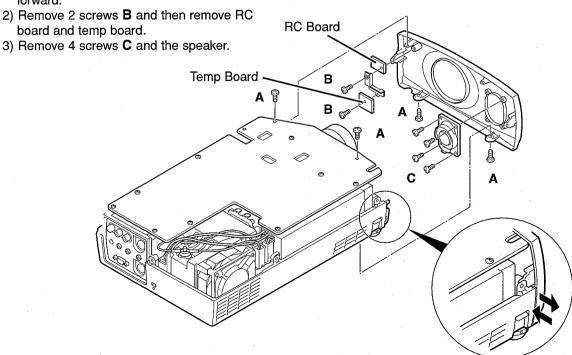


Fig.2

3. MAIN BOARD REMOVAL

Remove 9 screws and remove the main board upward.

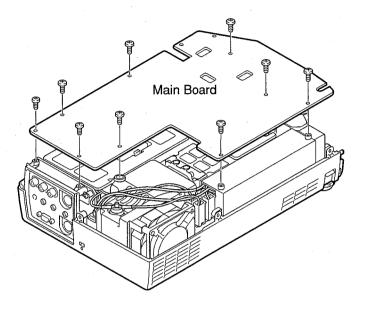


Fig.3

FUSE REMOVAL

Remove a screw and pull the line filter cover upward and then replace the fuse if required.

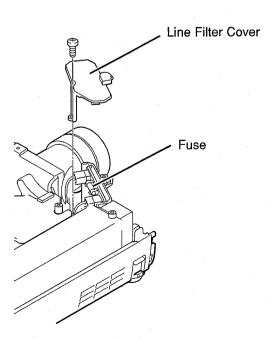
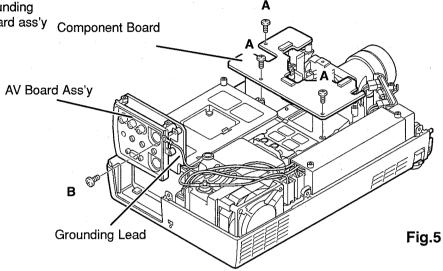


Fig.4

4. AV AND COMPONENT BOARD REMOVAL

- Remove 3 screws A and FPC cables, and then take the component board off upward.
- 2) Remove a screw **B** and a grounding lead, and then take the AV board ass'y Component Board off upward.



5. LINE FILTER BOARD REMOVAL

- 1) Remove a screw A and remove a grounding lead.
- 2) Remove 2 screws B and take the line filter ass'y off upward.
- 3) Remove the line filter board from line filter holder.

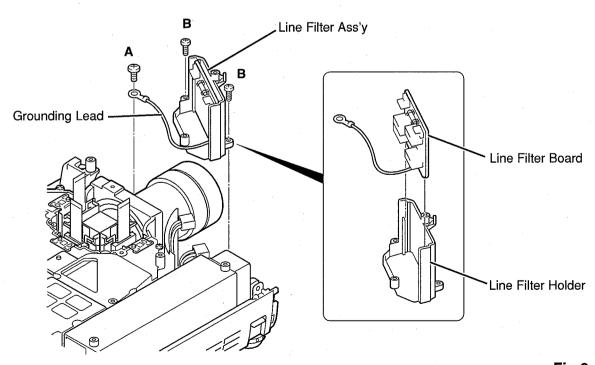
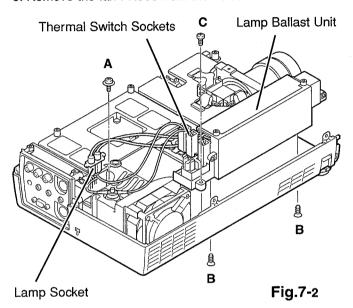
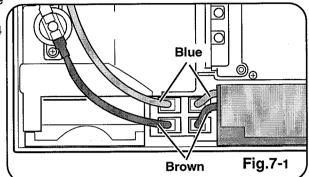


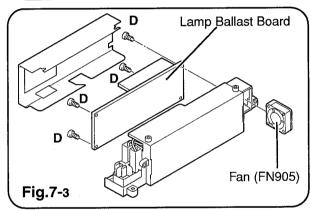
Fig.6

6. LAMP BALLAST UNIT FAN(FN905) REMOVAL

- 1) Disconnect the thermal switch sockets.
- 2) Remove a screw A and disconnect the lamp socket.
- 3) Remove 2 screws **B** (bottom side) and a screw **C**, and the remove the lamp ballast unit upward.
- 4) Take the cover off from the lamp ballast unit and remove 4 screws **D** and take the lamp ballast board off from the holder.
- 5. Remove the fan FN905 from the holder.







7. POWER BOARD REMOVAL

- 1) Remove 2 screws A and take the power unit cover off upward.
- 2) Remove 3 screws **B** and pull the power board upward.

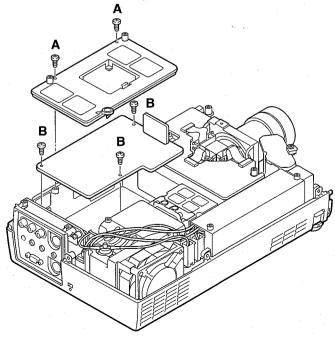
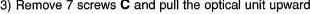
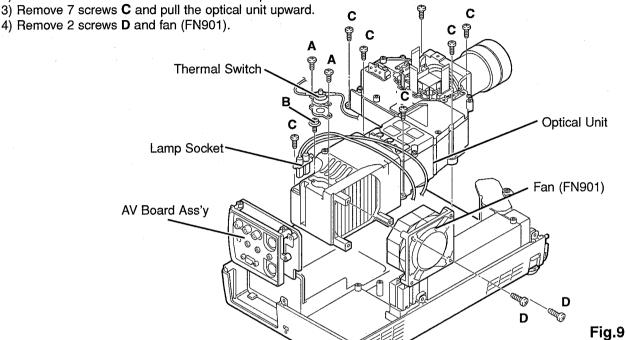


Fig.8

8. OPTICAL UNIT AND FAN(FN901) REMOVAL

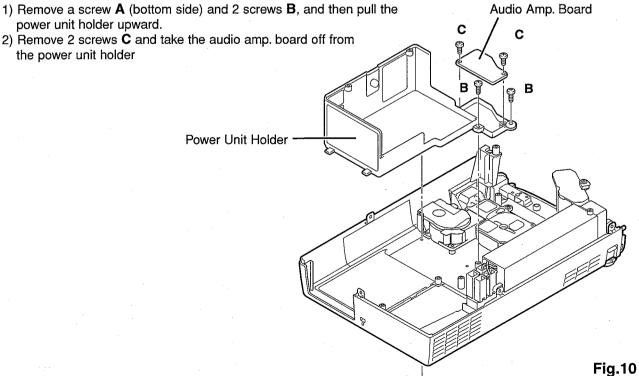
- 1) Remove 2 screws A and the thermal switch.
- 2) Remove a screw B and disconnect the lamp socket.





9. AUDIO AMP. BOARD REMOVAL

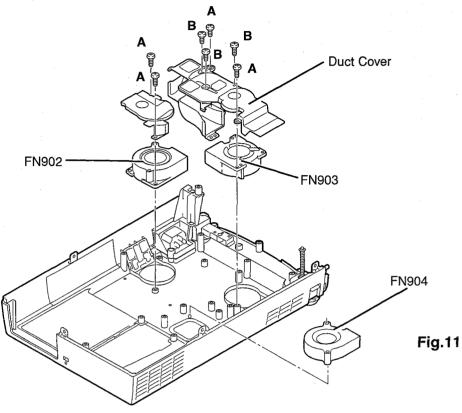
1) Remove a screw A (bottom side) and 2 screws B, and then pull the power unit holder upward.



Α

10, FANS(FN902, FN903, FN904) REMOVAL

Remove 4 screws A and 3 screws B and remove the duct cover and fans (FN902, FN903 and FN904)



11. AC INLET ASS'Y REMOVAL

- Remove a screw A and a grounding lead.
 Remove 2 screws B and pull the AC inlet ass'y upward.

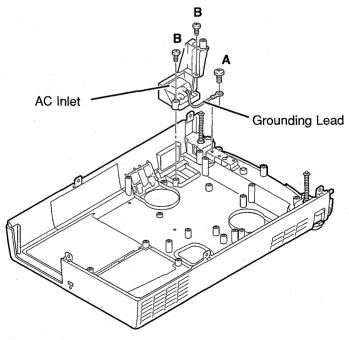


Fig.12

■ Optical Parts Disassemblies

1. PROJECTION LENS REMOVAL

- 1) Remove the Cabinet top and cabinet front following to "Mechanical Disassemblies".
- 2) Remove 4 screws and remove the Projection Lens.

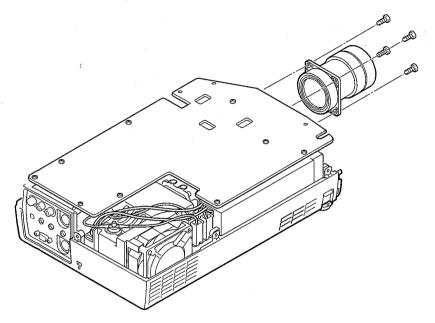
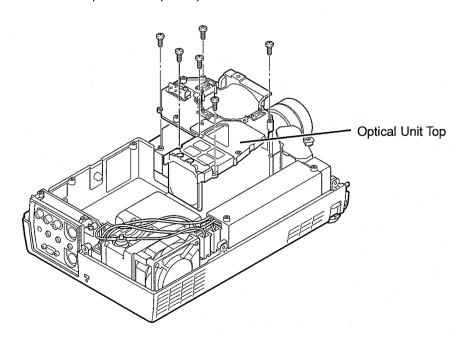


Fig.1

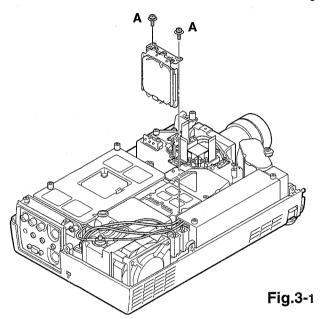
2. OPTICAL UNIT TOP REMOVAL

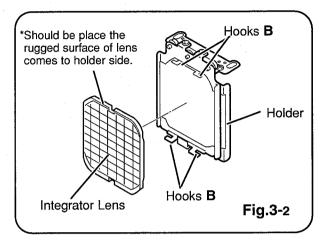
- 1) Remove the Cabinet top, front, main board, component boards and power unit cover following to "Mechanical Disassemblies".
- 2) Remove 6 screws and take the optical unit top off upward.



3. INTEGRATOR LENS ASS'Y DISASSEMBLY

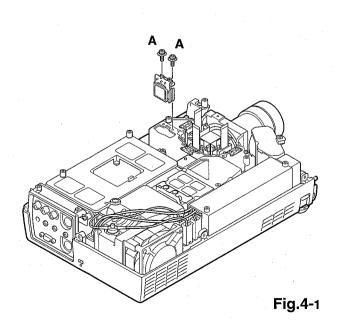
- 1) Remove the cabinet top, front and main board following to "Mechanical Disassemblies".
- 2) Remove 2 screws A and take the integrator lens ass'y off upward.
- 3) Release 4 hooks **B** on the holder and remove the integrator lens.

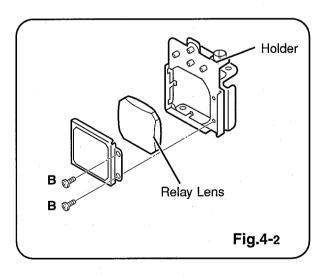




4. RELAY LENS ASS'Y DISASSEMBLY

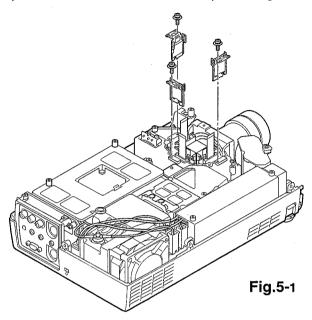
- 1) Remove the cabinet top, front, main and component boards following to "Mechanical Disassemblies".
- 2) Remove 2 screws **A** and take the relay lens ass'y off upward.
- 3) Remove 2 screws B on the holder and take the relay lens off.

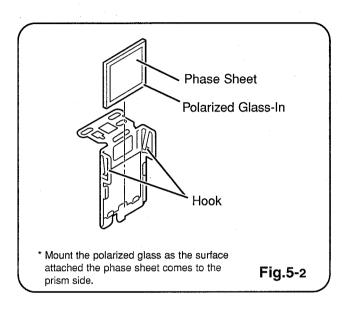




5. POLARIZED GLASS-IN ASS'Y DISASSEMBLY

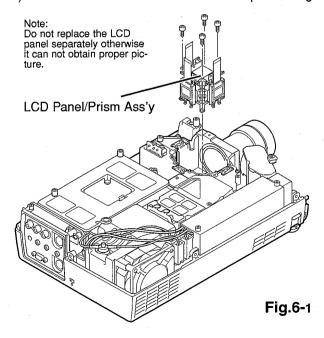
- 1) Remove the cabinet top, front, main and component boards following to "Mechanical Disassemblies".
- 2) Remove each screw and take the each polarized glass-in ass'y off upward.
- 3) Release 2 hooks and remove the polarized glass-in.

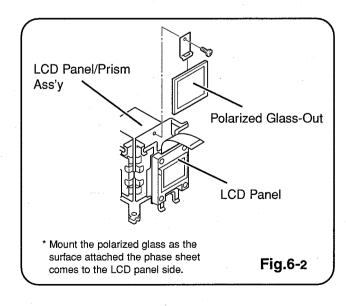




6. POLARIZED GLASS-OUT ASS'Y DISASSEMBLY

- 1) Remove the cabinet top, front and main boards following to "Mechanical Disassemblies".
- 2) Remove 4 screws by using the 2.0 mm hex driver and take the LCD Panel/Prism ass'y off upward from the optical unit.
- 3) Remove each screw and take the each polarized glass-out off upward.

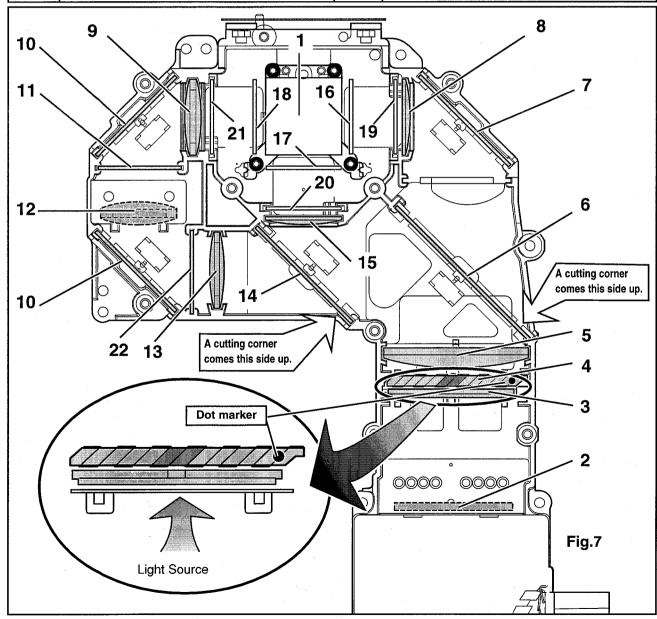




Locations and Directions

When the optical parts mounting or assembling, the parts must be mounted in the specified location and direction. Please follow to the figure below.

No.	Part name	No.	Part name
1	Prism ass'y	12	Relay lens (OUT)
2	Integrator lens (IN)	- 13	Relay lens (IN)
3	Integrator lens (OUT)	14	Dichroic mirror (G)
4	Prism Ass'y (PBS)	15	Condenser lens
5	Condenser lens (OUT)	16	Polarized glass (OUT/R)
6	Dichroic mirror (R)	17	Polarized glass (OUT/G)
7	Mirror (R)	18	Polarized glass (OUT/B)
8	Condenser lens (R)	19	Polarized glass (IN/R)
9	Condenser lens (B)	20	Polarized glass (IN/G)
10	Mirror (B)	21	Polarized glass (IN/B)
11	Optical Filter (UV cut)	22	Optical Filter (RB)



■ LCD Panel/Prism Ass'y Replacement

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following adjustments.

- Check the "Integrator Lens Adjustment" and "Relay Lens Adjustment" following to chapter "Optical Adjustment".
- Check the "White Balance Adjustment" and "Black Balance Adjustment" following to chapter "Electrical Adjustment".
- Check the white uniformity on the screen.

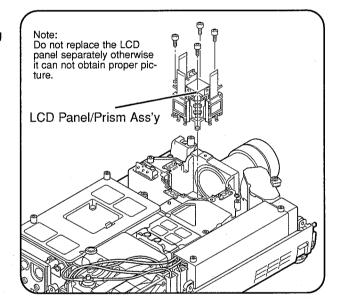
 If you find the color shading, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately. The software can be ordered as follows;

COLOR SHADING CORRECTION (Ver. 2.0.2)

Service Parts No. 645 045 7272

LCD PANEL/PRISM ASS'Y REMOVAL

- 1. Remove the cabinet top, front and main board following to "Mechanical Disassemblies".
- Remove 4 screws by using the 2.0 mm hex driver and take the LCD Panel/Prism ass'y off upward from the optical unit.

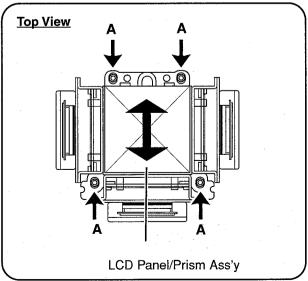


NOTE ON LCD PANEL/PRISM ASS'Y MOUNTING

After replacing or installing the LCD Panel/Prism ass'y, please make sure to obtain the best focus in both TELE and WIDE zoom. If the focus adjustment is required, please adjust the positioning of LCD Panel/Prism Ass'y by following the below procedure.

Mounting Procedure:

- Loosen 4 screws A on the LCD Panel/Prism ass'y with 2.0 mm hex driver.
- 2. Turn the projector on and project the image with WIDE zoom, and adjust the FOCUS control to obtain the best focus.
- 3. Turn the ZOOM control to the TELE position.
- 4. Move the LCD Panel/Prism Ass'y backward or forward (about 0mm ~ 0.8mm) to obtain the proper focus. Confirm the focus at TELE and WIDE zoom.
- 5. Tighten 4 screws A to fix the LCD Panel/Prism ass'y.



■ Lamp Replacement

WARNING:

- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

Procedure

- Turn off the projector and disconnect the AC cord. Allow the projector to cool for at lease 45 minutes.
- 2. Remove a screw with a screwdriver and remove the lamp cover.
- 3. Remove 2 screws and pull out the lamp assembly by grasping the handle
- 4. Replace the lamp assembly securely and tighten 2 screws.
- 5. Place the lamp cover and tighten a screw.
- 6. Connect the AC cord to the projector and turn on.

7. Reset the lamp replacement monitor timer, see below explanation.

Note:

- Do not reset the Lamp Replacement Monitor Timer, except after the lamp is replaced.
- The projector can not be turned-on with the lamp cover removed, because when the lamp cover is removed, the interlock switch is also released to switch off the mains power for safety.

How to reset the Lamp Replacement Monitor Timer

- Turn the projector on, and press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SETTING and press the SELECT button. Another dialog box SET-TING MENU will appear.
- 2. Press the **POINT DOWN** button and a red arrow icon will appear. Move the arrow to "Lamp age", and then press the **SELECT** button. The message "Lamp replace monitor Reset?" is displayed.
- 3. Select [Yes] to reset the Timer.

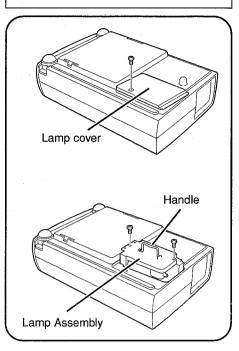
Please refer to the owners manual for further information.

ORDER REPLACEMENT LAMP

 Type No.
 Service Parts No.

 POA-LMP25
 610 287 5386

 POA-LMP34
 610 291 0032



Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.

Refer to "Air Filter Cleaning".

How to check the Accumulated Illumination Time

The LAMP REPLACEMENT indicator will illuminate when the accumulated illumination time of the lamp reaches 2000 hours. This is to indicate that lamp replacement is required.

You can check the accumulated illumination time of the lamp by following procedure.

- 1. Press and hold the pointer ▲ on the projector for more than 20 seconds.
- 2. The accumulated illumination time is displayed on the right bottom corner of the screen. For example, when "Lamp Age 123 hours" is displayed, the

accumulated illumination time of the lamp is 123 hours. This will disappear in 5 seconds.



Accumulated Illumination Time

CONTRAST ADJUSTMENT

[Before Adjustment]

- Adjustment requires a 2.0mm hex wrench and a slot screwdriver.
- Remove cabinet top following to "Mechanical Disassemblies".
- Input a 100% of black raster signal.

Note: Do not disconnect the connectors on main and component boards otherwise the projector can not be turned on.

[R/G/B-CONTRAST ADJUSTMENT]

- 1. Shield the unnecessary lights by inserting the thick paper etc. in front of the LCD panels .
 - When adjusting the R-Contrast, project red light only.
 - When adjusting the G-Contrast, project green light only.
 - When adjusting the B-Contrast, project blue light only.
- 2. Loosen a screw A (Fig.1-1/1-2) on the polarized glass mounting base which you intend to adjust.
- 3. Adjust a slots **B** as shown in **Fig.1-1** to obtain the darkest brightness on the screen by turning a slot screwdriver.
- 4. Tighten the screw A to fix the polarized glass mounting base.

Repeat steps 1 to 4 for remaining polarized glasses.

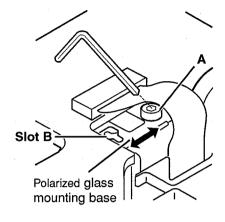


Fig.1-1

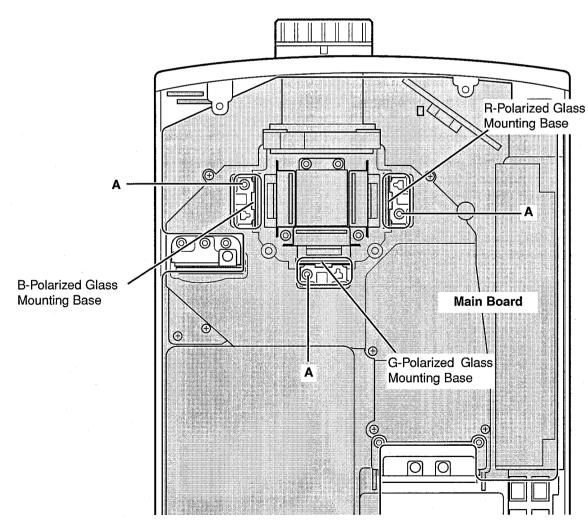


Fig.1-2

INTEGRATOR LENS ADJUSTMENT

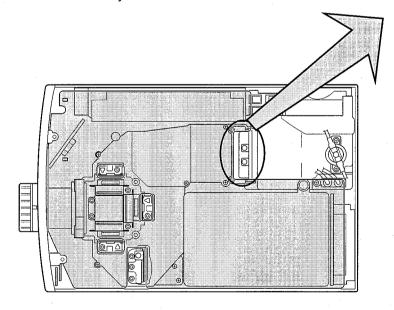
[Before Adjustment]

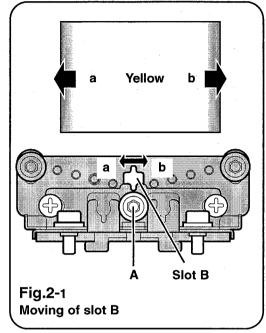
- Adjustment requires a 2.0mm hex driver and a slot screwdriver.
- Remove cabinet top following to "Cabinet Disassemblies".

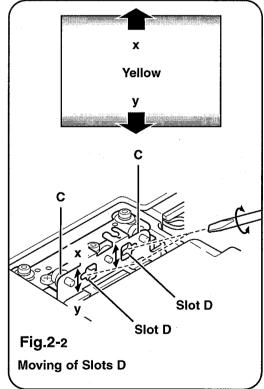
Note: Do not disconnect the connectors on main and component boards otherwise the projector can not be turned on.

[ADJUSTMENT]

- 1. Turn on lamp by a state of without FPC cable of LCD panels.
- 2. Shield the red and blue lights by inserting thick papers etc. in front of Red and Blue LCD panels to project only green light and make a fine focus.
- 3. Remove the shield in front of Red LCD panel to project green and blue light.
- 4. Adjust the adjustment base of integrator lens ass'y to make color uniformity in yellow.
 - If the color shade appears on the left or right of the screen as shown in Fig.2-1, loosen 1 screw A with the 2.0mm hex driver and adjust a slot B to make color uniformity in yellow by turning a slot screwdriver.
 - 2) If the color shade appears on the top or bottom of the screen as shown in Fig.2-2, loosen 2 screws C with the 2.0mm hex driver and adjust a slots D to make color uniformity in yellow by turning a slot screwdriver.
- 5. Tighten 1 screw A and 2 screws C to fix the integrator lens unit.
- 6. Remove the shield in front of Blue LCD panel and project red, green and blue light. Check that there is no color shade on the left or right of the screen. If you recognise the color shade, the "Relay Lens Adjustment" should be carried out to obtain the proper color uniformity.







RELAY LENS ADJUSTMENT

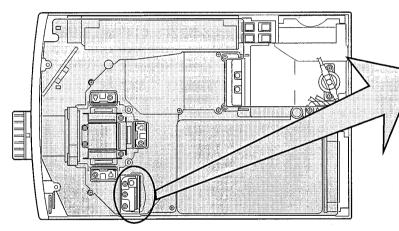
[Before Adjustment]

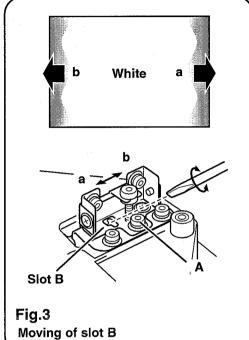
- Adjustment requires a 2.0mm hex driver and a slot screwdriver.
- Remove cabinet top following to "Cabinet Disassemblies".

Note: Do not disconnect the connectors on main and component boards otherwise the projector can not be turned on.

[ADJUSTMENT]

- 1. Turn on lamp by a state of without FPC cable of LCD panels.
- 2. Adjust the adjustment base of relay lens ass'y to make color uniformity in white.
 - If the color shade appears on the left or right of the screen as shown in **Fig.3**, loosen a screw $\bf A$ with the 2.0mm hex driver and adjust the slot $\bf B$ to make color uniformity in white by using a slot screwdriver.
- 3. Tighten the 1 screw A to fix the relay lens unit.





■ Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

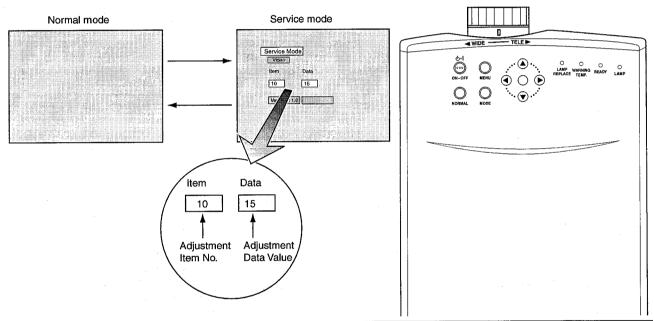
To enter to the "Service Mode", press and hold the **MENU** and **NORMAL** button on the projector at the same time for more than 3 seconds. The service mode display appears on the screen as follows.

To adjust service data

Select the adjustment item no. by pressing the pointer ▲ or ▼ button, and change the data value by pressing the pointer ◀ or ▶ button. Refer to the "Service Adjustment Data Table" for further description of adjustment item no. and data value.

To exit the service mode

To exit the service mode, press the POWER ON-OFF button on the projector or remote control unit.



Memory IC Replacement

IC302 on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.

If replaced, it should be performed the re-adjustments following to the "Electrical Adjustments".

The data of lamp replacement monitor timer is stored in the IC302.

Please note that the lamp replacement monitor timer is reset when the memory IC (IC302) is replaced. (Lamp replacement monitor time can not be set to the previous value.)

Caution to memory IC replacement

When IC302 is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC, refer to the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjust-

ments following to the "Electrical Adjustments".

<u>Please note that the lamp replacement monitor timer is reset.</u>

Caution of Main Board replacement (in the case IC302 is not defective)

When the main board is replaced, IC302 should be replaced with the one on previous main board. After replacement, it should be required to perform the readjustments following to the "Electrical Adjustments". In this case, the lamp replacement monitor timer can be kept the value as before.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

[Adjustment Condition]

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	Video signal	1.0Vp-p/75 Ω terminated, 16 steps gray scale (Composite video signal)
	Component Video signal	$0.7\text{Vp-p/}75\Omega$ terminated, 16 steps gray scale (Component video signal
		with 480i, 480p, 575p, 720p, 1035i or 1080i format)
	Computer signal	0.7Vp-p/75Ω terminated, 16 steps gray scale pattern (SVGA)

• Picture control mode "NORMAL" mode unless otherwise noted.

Note:

* Please refer to "Service Adjustment Menu Operation" for entering to the service mode and adjusting the service data.

OUTPUT VOLTAGE ADJUSTMENT

After replacing the Power Board, PF.C. Board, readjust the Output voltage adjustment as follows.

- 1. Connect a digital voltmeter to pins 1 (+) and 3 (-) of K6C.
- 2. Adjust the voltage by using VR01 as following.

AC Input	<u>Reading</u>
230V	380V ±2V
1201/	372\/ +2\/

Caution:

Be sure to connect the lamp when taking this adjustment.

FAN VOLTAGE ADJUSTMENT

- 1. Connect a digital voltmeter to test point "TP6602" (+) and chassis ground (-).
- 2. Enter to the service mode, select item no. "29" and set data value to "1".
- Adjust the voltage to be 12.1 ±0.1Vdc by using VR6601.
- 4. Check that the voltages at test points "TP6601" (+), "TP6603" (+) and chassis ground (-) are 13.0 to 13.5Vdc.
- 5. Select item no. "29" and set data value to "0".

PC-OFFSET ADJUSTMENT

- 1. Receive the 16-step gray scale computer signal.
- 2. Set to COMPUTER mode.

[R-OFFSET ADJUSTMENT]

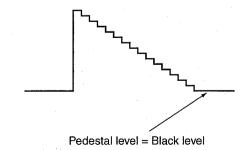
- 3. Connect an oscilloscope to test point "TP2212R" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "275" and change data value to adjust the pedestal level and black level to be same level.

[G-OFFSET ADJUSTMENT]

- 5. Connect an oscilloscope to test point "TP2222G" (+) and chassis ground (-).
- Select item no. "276" and change data value to adjust the pedestal level and black level to be same level.

[B-OFFSET ADJUSTMENT]

- 7. Connect an oscilloscope to test point "TP2232B" (+) and chassis ground (-).
- Select item no. "277" and change data value to adjust the pedestal level and black level to be same level.



PC GAIN ADJUSTMENT

- 1. Receive the 16-step grey scale computer signal.
- 2. Set to **COMPUTER** mode.

[PC-R GAIN ADJUSTMENT]

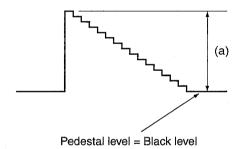
- 3. Connect an oscilloscope to test point "TP2212R" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "30" and change data value to adjust "a" to be 1.13 ±0.01Vp-p.

[PC-G GAIN ADJUSTMENT]

- 5. Connect an oscilloscope to test point "TP2222G" (+) and chassis ground (-).
- 6. Select item no. "273" and change data value to adjust "a" to be 1.13 ±0.01Vp-p.

[PC-B GAIN ADJUSTMENT]

- 7. Connect an oscilloscope to test point "TP2232B" (+) and chassis ground (-).
- 8. Select item no. "274" and change data value to adjust "a" to be 1.13 ±0.01Vp-p.



COMPONENT GAIN ADJUSTMENT

- Receive the 16-step grey scale component video signal.
- 2. Set to VIDEO (Component) mode.

[COMPONENT-R GAIN ADJUSTMENT]

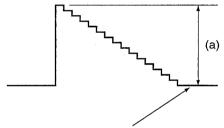
- 3. Connect an oscilloscope to test point "TP2212R" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "30" and change data value to adjust "a" to be 1.05 ±0.01Vp-p.

[COMPONENT-G GAIN ADJUSTMENT]

- 5. Connect an oscilloscope to test point "TP2222G" (+) and chassis ground (-).
- 6. Select item no. "273" and change data value to adjust "a" to be 1.05 ± 0.01 Vp-p.

[COMPONENT-B GAIN ADJUSTMENT]

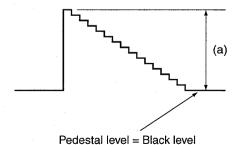
- 7. Connect an oscilloscope to test point "TP2232B" (+) and chassis ground (-).
- 8. Select item no. "274" and change data value to adjust "a" to be 1.05 ±0.01Vp-p.



Pedestal level = Black level

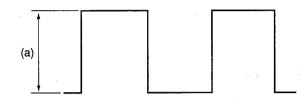
AV GAIN ADJUSTMENT

- 1. Receive the 16-step grey scale video signal.
- 2. Set to VIDEO mode.
- 3. Connect an oscilloscope to test point "TP2222G" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "30" and change data value to adjust "a" to be 1.05 ±0.01Vp-p.



NRS ADJUSTMENT

- 1. Receive the 16-step grey scale computer signal.
- 2. Set to **COMPUTER** mode.
- 3. Connect an oscilloscope to test point "TP3581" (+) and chassis ground (-).
- 4. Adjust "a" to be 5.0 ±0.1V by using VR3561.



SIGNAL CENTER ADJUSTMENT

Presetting

- 1. Receive the 16-step grey scale computer signal.
- 2. Set to **COMPUTER** mode.

[R-SIGNAL CENTER ADJUSTMENT]

- 3. Connect a digital voltmeter to test point "TP511" (+) and chassis ground (-).
- 4. Adjust voltage to be 7.30 ±0.05V by using VR521.

[G-SIGNAL CENTER ADJUSTMENT]

- 5. Connect a digital voltmeter to test point "TP512" (+) and chassis ground (-).
- 6. Adjust voltage to be 7.30 ±0.05V by using VR551.

[B-SIGNAL CENTER ADJUSTMENT]

- Connect a digital voltmeter to test point "TP513" (+) and chassis ground (-).
- 8. Adjust voltage to be 7.30 ±0.05V by using VR581.

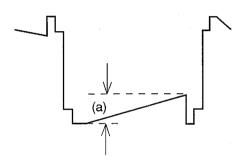
PC/AV GAMMA OFF ADJUSTMENT

PC-GAMMA OFF ADJUSTMENT

- 1. Receive the 16-step gray scale computer signal.
- 2. Set to COMPUTER mode.
- 3. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "0" and change data value to adjust "a" to be 1.60 ±0.01Vp-p.

[AV-GAMMA OFF ADJUSTMENT]

- 5. Receive the 16-step gray scale video signal.
- 6. Set to VIDEO mode.
- 7. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- 8. Enter to the service mode, select item no. "0" and change data value to adjust "a" to be 1.75 ±0.01Vp-p.



* This adjustment should be carried out before adjusting PC/AV-VIDEO ADJUSTMENT-1 and 2.

PC/AV-VIDEO ADJUSTMENT-1

Presetting

Input the 16-step gray scale video signal and computer signal.

[PC/AV-VIDEO ADJUSTMENT]

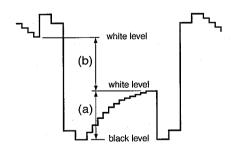
- 2. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- 3. Enter to the service mode, select item no. "15" and change data value to adjust "b" to be 1.8 ±0.01Vp-p at each VIDEO and COMPUTER mode.
- 4. Select **COMPUTER** mode, select item no. "12" and change data value to adjust "a" to be 3.90 ±0.01Vp-p.
- 5. Select **VIDEO** mode, select item no. "12" and change data value to adjust "a" to be 4.00 ±0.01Vp-p.

[R-VIDEO ADJUSTMENT]

- Connect an oscilloscope to test point "TP511" (+) and chassis ground (-).
- Enter to the service mode and select COMPUTER mode.
- 8. Select item no. "13" and change data value to adjust "a" to be $3.90 \pm 0.01 \text{Vp-p}$.
- 9. Select **VIDEO** mode and item no. "13" and change data value to adjust "a" to be 4.00 ±0.01Vp-p.

[B-VIDEO ADJUSTMENT]

- 10. Connect an oscilloscope to test point "TP513" (+) and chassis ground (-).
- 11. Enter to the service mode and select **COMPUTER** mode.
- 12. Select item no. "14" and change data value to adjust "a" to be 3.90 ±0.01Vp-p.
- 13. Select **VIDEO** mode and item no. "14" and change data value to adjust "a" to be 4.00 ±0.01Vp-p.



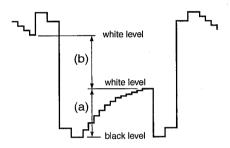
PC/AV-VIDEO ADJUSTMENT-2

[PC-VIDEO ADJUSTMENT-2]

- 1. Receive the 16-step grey scale computer signal.
- 2. Set to COMPUTER mode.
- 3. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "15" and change data value to adjust "b" to be 1.90 ±0.01Vp-p.

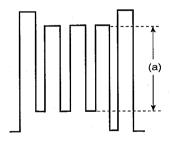
[AV-VIDEO ADJUSTMENT-2]

- 9. Receive the 16-step grey scale video signal.
- 10. Set to VIDEO mode.
- 11. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- 12. Enter to the service mode, select item no. "15" and change data value to adjust "b" to be 2.10 ±0.01Vp-p.



S/H CLOCK ADJUSTMENT

- 1. Receive the 16-step gray scale computer signal.
- 2. Set to **COMPUTER** mode.
- 3. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "3" and change data value to adjust "a" to be maximum.



COMMON CENTER ADJUSTMENT

- 1. Receive the 1 dot line computer signal.
- 2. Set to COMPUTER mode.

[R-COMMON CENTER ADJUSTMENT]

- 3. Cover the G and B panel to block the light transit.
- 4. Adjust VR2561 to obtain the minimum flicker on the picture.

[G-COMMON CENTER ADJUSTMENT]

- 5. Cover the R and B panel to block the light transit.
- 6. Adjust VR2571 to obtain the minimum flicker on the picture.

[B-COMMON CENTER ADJUSTMENT]

- 7. Cover the G and R panel to block the light transit.
- 8. Adjust VR2581 to obtain the minimum flicker on the picture.

WHITE BALANCE ADJUSTMENT

[PC WHITE BALANCE ADJUSTMENT]

- 1. Receive the 16-step grey scale computer signal.
- 2. Set to COMPUTER mode.
- 3. Enter to the service mode, select item no. "16" (Red) or "17" (Blue), and change data values respectively to make a proper white balance.

[AV WHITE BALANCE ADJUSTMENT]

- 4. Receive the 16-step grey scale video signal.
- 5. Set to VIDEO mode.
- Select item no. "16" (Red) or "17" (Blue), and change data values respectively to make a proper white balance

[COMPONENT WHITE BALANCE ADJUSTMENT]

- Receive the 16-step grey scale component video signal.
- 8. Set to VIDEO (Component) mode.
- Select item no. "16" (Red) or "17" (Blue), and change data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video, computer and component input.

BLACK BALANCE ADJUSTMENT

[PC BLACK BALANCE ADJUSTMENT]

- 1. Receive the 16-step grey scale computer signal.
- 2. Set to COMPUTER mode.
- 3. Enter to the service mode, select item no. "9" (Red) or "10" (Blue), and change data values respectively to make a proper white balance at darker portion of the screen.

[AV BLACK BALANCE ADJUSTMENT]

- 4. Receive the 16-step grey scale video signal.
- 5. Set to VIDEO mode.
- 6. Select item no. "9" (Red) or "10" (Blue), and change data values respectively to make a proper white balance at darker portion of the screen.

[AV BLACK BALANCE ADJUSTMENT]

- 7. Receive the 16-step grey scale component video signal.
- 8. Set to VIDEO (Component) mode.
- 9. Select item no. "9" (Red) or "10" (Blue), and change data values respectively to make a proper white balance at darker portion of the screen.

Confirm that the same white balance is obtained at darker portion of the screen in video, computer and component input.

NOTE ON WHITE UNIFORMITY ADJUSTMENT

If you find the color shading, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately. The software can be ordered as follows;

COLOR SHADING CORRECTION (Ver. 2.0.2)

Service Parts No. 645 045 7272

● Service Adjustment Data Table

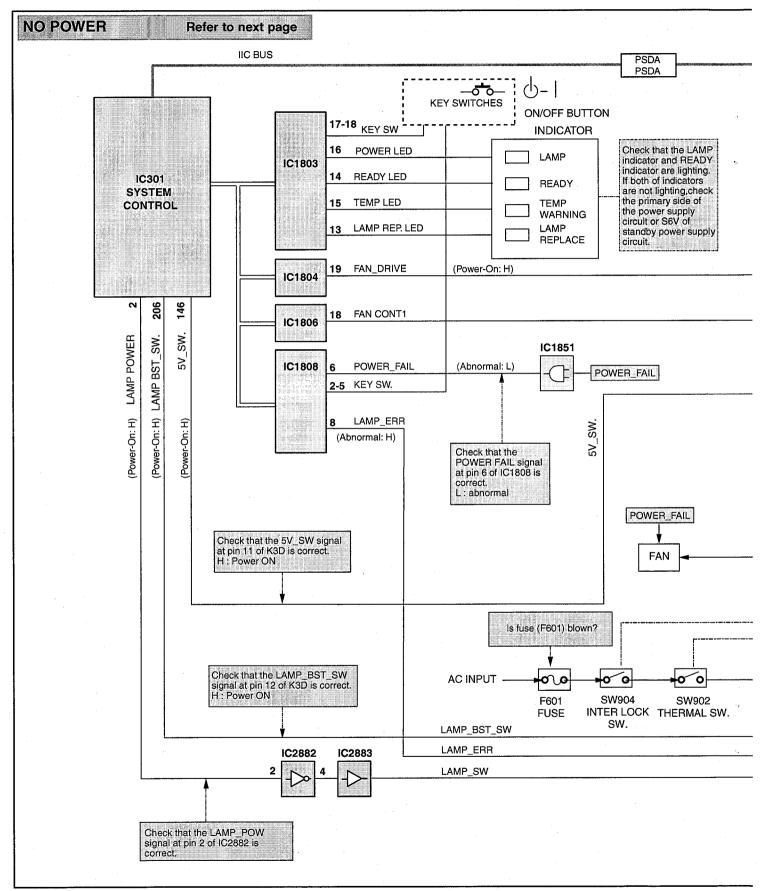
These initial values are the reference data written from the CPU ROM to the memory IC when the new memory IC replaced. The adjustment items indicated with "*x" are required to readjust following to the "Electrical adjustments". Other items should be used with the initial data value.

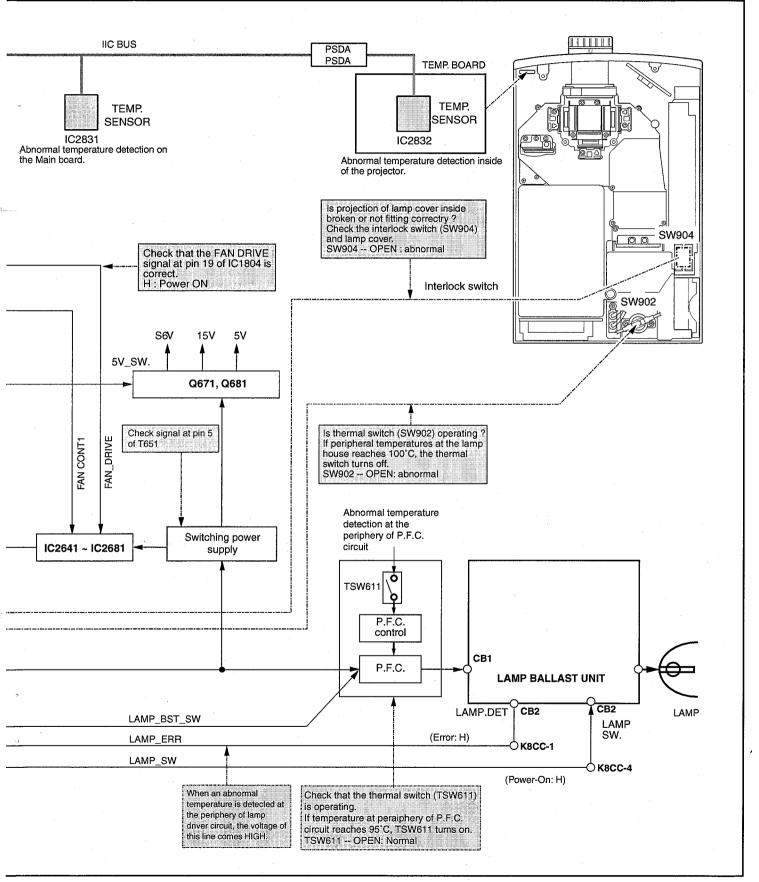
	used with the initial data value.								
No.	Adjustment Item		Initial Value)	Range	Description	
			PC CV or S Y/Cb/Cr			Y/Cb/Cr			
0	RGB AMP (Gamma OFF)	*	30	30		0 - 63	Same as No.1of RGB AMP(Gamma ON)		
1	RGB AMP (Gamma ON)		30		3	30 .		To up/down R/G/B of Gamma at same time	
								system stop up/down, when R, G or B value reached Max or Min value.	
2	S&H Test pattern display position			;	3		0 - 12	Test pattern display depend on setting value,test pattern move to right, 1 dot each by increasing data value.	
3	GAMMA DLY CNT	*		2	25		0 - 63	Display Green test pattern where Service No2 setting position.	
4	GAMMA G BIAS				5		0 - 63		
5	Not used								
6	GAMMA R BIAS	· · · · · · · · · · · · · · · · · · ·			5	·	0 - 63		
7	Not used				_				
8	GAMMA B BIAS		20		5		0 - 63		
9	GAMMA R-B1P	*	29	_	8	28	0 - 63	White balance adjustment of Black portion in AV mode for Red	
10	GAMMA B-B1P	*	29 29		.8 .8	28 28	0 - 63	White balance adjustment of Black portion in AV mode for Blue	
11	GAMMA G-B1P DAC CLAMP LEVEL(SUB BRIGHT)	*	30	- 2		1 28 30	0 - 63 0 - 63	White balance adjustment of Black portion in AV mode for Green Sub-Bright(refer to DAC IC Control and User control spec)	
13	GAMMA R GAIN	*	30			30	0 - 63	Sub-dignificial to DAC IC Control and oser control spec)	
14	GAMMA B GAIN	*	30			30	0 - 63		
15	DAC RGB BIAS	*	50			50	0 - 125	G-Bias adjust value(refer to DAC IC Control and User control spec)	
16	DAC R BIAS	*	50		0	50	0 - 125	R-Bias adjust value(refer to DAC IC Control and User control spec)	
17	DAC B BIAS	*	50		0	50	0 - 125	B-Bias adjust value(refer to DAC IC Control and User control spec)	
18	DAC RGB GAIN(SUB CONTRAST)	<u> </u>	30			! 30	0 - 63	Sub-CONT(refer to DAC IC Control and User control spec)	
19	S&H B-CK			1	2		0 - 255	Display Blue test pattern where Service No2 setting position.	
20	S&H G-CK			1	2	·····	0 - 255	Display Green test pattern where Service No2 setting position.	
21	S&H R-CK			1	2	······································	0 - 255	Display Red test pattern where Service No2 setting position.	
22	Setting for Shoot out mode			()		0-2	0;Normal/ 1;Shoot out1/ 2;Shoot out2	
23	Serial baud rate setting				1		0-2	0;9600/ 1;19200/ 2;38400	
24	Lamp life time display			()			Read Only	
25	S&H HCK PHASE adjust				4		0 - 15	Display Green test pattern where Service No2 setting position.	
26	GAMMA R_WHP		57		7	57	0 - 63		
27	GAMMA G_WHP		57		7	57	0 - 63		
28	GAMMA B_WHP		57		7	57	0 - 63		
29	Fan Control	*		,) 		0 or 1	Fans control for high land, control FAN_CONT1/FAN_CONT2. 0 : automatic, 1 : Forced High speed	
30	D/A gain	*	128	1:	28	128	0 - 255		
			ierngindakierevi	. <u> </u>	who were	удацифовий пист			
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		NT	SC	Stanta paratra	AL			
36	VD Analog Cont3(CV)				2		0 - 255		
37	VD Analog Cont4				1/	90	0 - 255		
42	VD Bright			48		30	0 - 255		
43 64	VD Contrast VD Analog Cont3(S-Video)			58		58	0 - 255 0 - 255		
"	VE Analog Conto(C-Video)	···	72		V - 200				
	· · · · · · · · · · · · · · · · · · ·		P	rc l	Y/∩	b/Cr			
272	REDGAIN			PC Y/Cb/Gr 96 96		0 - 255			
273	GRNGAIN	*	 	96		16	0 - 255		
274	BLUGAIN	*		96		16	0 - 255		
275	REDOFST	*		3	2		0 - 63		
276	GRNOFST	*	32		0 - 63				
277	BLUOFST	*	32		0 - 63	· ·			
278	CLDUR				0 - 255				
279	CLPLACE			-	-		0 - 255		
\sqcup									
\sqcup									
	-							<u>. </u>	

No.	Adjustment Item	Initial Value	Range	Description
	For Fan Control			
283	Ter	3	0 - 31	
284	t	2	2 - 5	Temperature checking period, 0.5/1.0/1.5/2.0/2.5/3.0 sec.
285	TaH	49	0 - 255	
286	TaL	43	0 - 255	
287	TbH	43	0 - 255	
288	TbL	37	0 - 255	
289	Th	6	0 - 255	
290	Not used			
291	Sub Sharpness (YCbCr)	8	0 - 15	Refer to User control spec
292	Sub Tint (Video)	0	0 - 191	Refer to User control spec
293	Sub Color (Video)	26	0 - 63	
294	Sub Sharpness (Video)	0	0-4	Select the PW Filter
295	Sub Color (YCbCr)	8	0 - 15	Refer to Use control spec.
296	Not used			
297	Expand Ratio (Vertical) 60Hz	3		Video and S-Video mode only.
298	Expand Ratio (Horizontal) 60Hz	11		·
299	Position (Horizontal) 60Hz	402		
300	Position (Vertical) 60Hz	300		
301	Expand Ratio (Vertical) 50Hz	6		
302	Expand Ratio (Horizontal) 50Hz	12	-	
303	Position (Horizontal) 50Hz	403		
304	Position (Vertical) 50Hz	300	-	
305	Expand Ratio (Vertical) 480i	13		For Component mode and RGB NTSC
306	Expand Ratio (Horizontal) 480i	17		
307	Position (Horizontal) 480i	407		
308	Position (Vertical) 480i	308		
309	Expand Ratio (Vertical) 575i	21		For Component mode and RGB PAL
310	Expand Ratio (Horizontal) 575i	25		1 of Composition and Tab TAE
	Position (Horizontal) 575i	408		
311	Position (Vertical) 575i	313		·
312		9		For Company mode
313	Expand Ratio (Vertical) 480p	10		For Component mode
314	Expand Ratio (Horizontal) 480p		-	
315	Position (Horizontal) 480p	409		
316	Position (Vertical) 480p	300	-	F. A
317	Expand Ratio (Vertical) 575p	22		For Component mode
318	Expand Ratio (Horizontal) 575p	26		•
319	Position (Horizontal) 575p	406		
320	Position (Vertical) 575p	308		
321	Expand Ratio (Vertical) 720p	12	-	For Component mode
322		20		
323	Position (Horizontal) 720p	406		
324	Position (Vertical) 720p	296		
325	Expand Ratio (Vertical) 1035i	13		For Component mode and RGB HDTV 1035i
326	Expand Ratio (Horizontal) 1035i	31		
327	Position (Horizontal) 1035i	403		
328	Position (Vertical) 1035i	303	••	
329	Expand Ratio (Vertical) 1080i	15		For Component mode and RGB HDTV 1080i
330	Expand Ratio (Horizontal) 1080i	31		j
331	Position (Horizontal) 1080i	403		
332	Position (Vertical) 1080i	304		
]	
			1	
+				
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Test Points and Locations Main Board ■ TP3331 IC3301 TP3322 VR531 TP513 VR581 VR521 VR3561 \oplus TP6602 🗆 \oplus TP511 TP531 TP532 IC501 IC531 VR561 VR2561 \oplus TP512 TP802 ⊕ VR551 **IC811** □ TP801 TP3582 \oplus \oplus VR2571 VR6601 □ TPDHS □ TPDVS IC301 TP5111 IC2200 □ □ □ TP2221G TP5112 \Box TP5113 □ ① VR2201 TP5103 IC6101 IC202 Power Board K6C TP221R ☐ IC6901 D652 T651 D651 IC631 K6J K6D

■ Troubleshooting





NO POWER

PERIPHERY OF CHASSIS

- Is fuse (F601) blown?
 Fuse may be opened when either the LAMP indicator or the READY indicator isn't Illuminated. Check the fuse.
 - For continued safety, replace with a fuse of the same type.

TYPE T4.0AH 250V FUSE. (LITTLE FUSE INC. TYPE 215004)

 Is projection of lamp cover inside broken or not fitting?

Check the INTER LOCK switch(SW904) and lamp cover.

SW904 OPEN : abnormal

- Is thermal switch(SW902) operating?
 If temperatures periphery of lamp house reaches 100°C, the thermal switch will be turned off automatically.
- SW902 OPEN: abnormal 4. Is the WARNING TEMP. indicator flashing? The
- 4. Is the WARNING TEMP. indicator flashing? The thermal sensor IC (IC2832) on the Temp. board or IC2831 on the main board may detect the abnormal temperature inside of the projector. If one of these ICs detects the abnormal temperature, this projector will be turned off automatically.

POWER BOARD

- Are the LAMP indicator(red) and READY indicator(green) light?
 If the LAMP and READY indicators do not illuminated, check the primary circuit and S6V of standby power supply circuit.
- 2. Check that the LAMP BST-SW signal is correct.
 Pin 12 of K6K H: ON
- 3. Check that the 5V_SW signal is correct.
 Pin 11 of K6K H: ON
- 4. Check that the POWER FAIL signal is correct.
 Pin 13 of K6K...... L : abnormal
- 5. Is thermal switch(TSW611) operating? If temperatures periphery of P.F.C. circuit reaches 95°C, the thermal switch will be turned on automatically.
 - TSW611 SHORT : abnormal
- Check the signal at pin 5 of T651. (Switching power IC output signal)

MAIN BOARD

- 1. Check that the 15.5V is observed at pins 1-3 of K3C.
- 2. Check that the 6V is observed at pins 6-8 of K3C.
- 3. Check that the -5V is observed at pin 9 of K3C.
- 4. Check that the 5V is observed at pins 10-11 of K3C.
- 5. Check that the 6V is observed at pins 2-4 of K3D.
- 6. Check that the 15.5V is observed at pins 7-8 of K3D.
- 7. Check that the 5V_SW signal is correct. Pin 11 of K3D...... H: ON
- 8. Check that the LAMP BST_SW signal is correct.
- 9. Check that the POWER FAIL signal is correct.
 Pin 13 of K3D L : abnormal
- 10. Check that the 12V is observed at test points TP6101. TP6102 and TP6103.
- 11. Check that the LAMP_SW signal is correct.
 Pin 4 of K8CC H : On
- 12. Check that the LAMP_ERR signal is correct.
 Pin 1 of K8CC L : On
- 13. Check that the POWER FAIL signal is correct.
 Pin 2 of IC1851......L: abnormal
- 14. Check that the Sensor IC(IC2831) detects abnormal temperature inside the projector.

COMPONENT BOARD

- 1. Check Power Supply and switching circuit Check ICs IC2641 to IC2691
- 2. Check that the POWER FAIL signal is correct.
 Pin 11-12 of K3A L : abnormal
- 3. Check that the FAN_DRIVE signal is correct.
 Pin 7-8 of K3A H : On

NO PICTURE

AV BOARD

 Check that the Vcc-voltages(+5V, -5V) are applied to AV circuits.
 Pins 47-50 of K10A, Pins 47-54 of K10B......5V

Pins 47-50 of K10A, Pins 47-54 of K10B5V
Pins 39-42 of K10B-5V
Check IC1001, IC1002 and IC1021.

2. Check that the following input signals are observed correctly.

SIGNAL	K10A-pin No.	K50A-pin No.
V-Sync	17-18	17-18
H-Sync	15-16	15-16
В	11-12	11-12
G	9-10	9-10
R	7-8	7-8
Video	33-34	33-34
s-c	29-30	29-30
S-Y	25-26	25-26

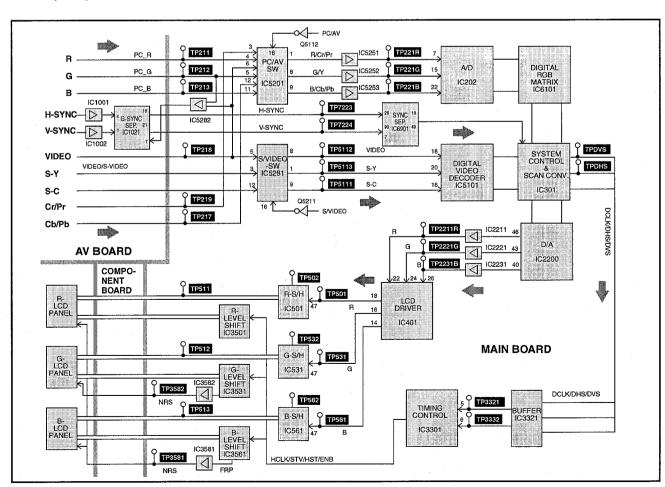
MAIN BOARD

- 1. Check the signals at following test points.
 - Video signal at TP208, TP218
 - V-sync signal at TP7224
 - H-sync signal at TP7223

- Check that the RGB signals are observed at following test points.

- 4. Check that the signals are observed at following test points.

 TPDHS, TP3322V-Sync,
- TPDVS, TP3321H-Sync 5. Check that the S/H signals are observed at following
- 6. Check that the NRS signals are observed at test points TP3581 and TP3582.



NO SOUND

MAIN BOARD

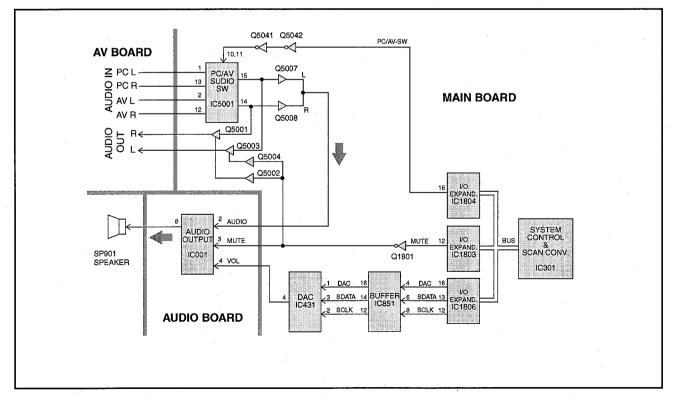
- 1. Check that the PC/AV switching signal is correct.

 Pins 10 and 11 of IC5001AV: L

 PC: H
- 2. Check that audio signal is observed at following points.
 - Pins 11-12(PC)/13-14(AV) of K10B/K50B
- 3. Check that the MUTE signal is correct.
 Pin 5 of K5AMute-On: H
- 5. Check that the PC/AV switching signal is correct.
 Pin 16 of IC1804AV: L
 PC: H

AUDIO BOARD

- Check that sound volume control signal is correct. Pin 4 of IC001
- 2. Check that audio signal is observed at pin 2 of IC001.
- 3. Check the MUTE signal at pin 3 of IC001.
 Pin 3 of IC001......Mute-On: H
- 4. Check that Vcc-voltage(+12V) is applied at pins 1 and 9 of IC001.

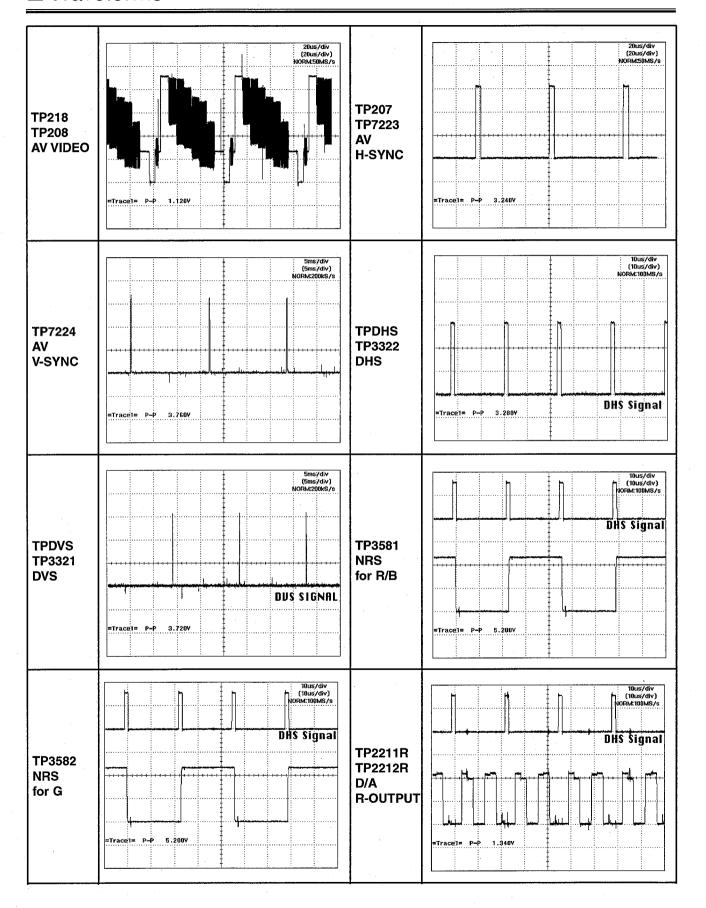


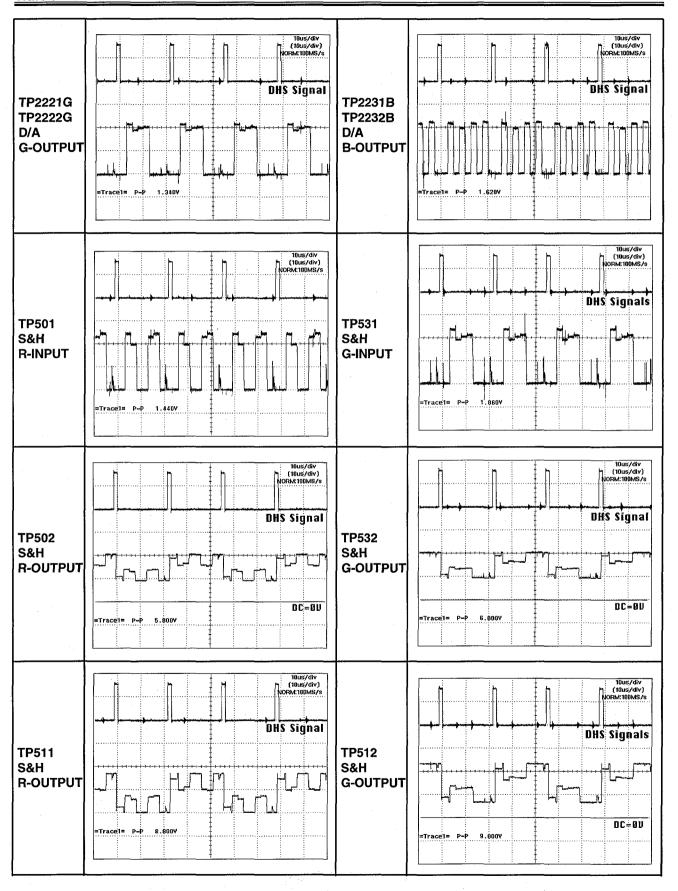
■ Control Port Functions

● System Control & I/O Port Functions

IC Ref. No	Pin/Name	1/0	Signal Name	Function	Note	
IC301	PortA0	1/0	ROMWEL	For ICE		
	PortA1	1/0	ROMWEH	For ICE		
	PortA2	1/0	BOOTWE	For ICE		
	PortA3	1/0	Not used	Fixed High		
	PortA4	0	5V_SW	Power ON/OFF	MainPower-ON: High	
	PortA5	0	LAMP_BST_SW	Lamp Ballast ON/OFF	Lamp Ballast-ON: High	
	PortA6	0	IO_Reset	Initialize I/O	I/O Active: Low	
	PortA7	0	LAMP_POW	Lamp-ON	Lamp-ON: High	
	PortB0	1/0	3L EN	3-Line Serial ON/OFF	Serial Line-ON: Low	
	PortB1	1/0	PortB1	MatrixSDA		
	PortB2	1/0	Mouse1	Mouse Control	Air Mouse-ON: High	
	PortB3	1/0	Not used	Fixed High		
	PortB4	I/O	SCL_IN	Fixed High		
	PortB5	1/0	Not used	Fixed High		
	PortB6	1/0	M SCL	IIC CLK		
	PortB7	1/0	M SDA	IIC DATA		
IC1803	12	0	Mute	Mute	Mute-OFF: High	
.0.000	13	Ö	LAMP_REP_LED	Lamp Replace LED Drive	ON: High	
	14	ō	READY LED	Ready LED Drive	ON: High	
	15	0	TEMP_LED	Temp Warning LED Drive	ON: High	
	16	0	POW LED	Power LED Drive	ON: High	
	17	0	KO3	Main Key Switch		
	18	Ö	KO2	Main Key Switch		
	19	ő	KO1	Main Key Switch		
IC1804	12	ō	CG_Filter	CG Filter ON/OFF	ON: High	
101004	13	0	VHDREN	Philips chip Enable	ON: High	
	14	Ö	VFIELD SW	VField PC/AV Selection	Video V Field: High	
	15	 	Y/G SW	Sync Sep. Y/G Selection	Y: High G: Low	
	16	 	PC/AV_SW	PC/AV Selection	PC: High AV: Low	
	17	 0	S/CV_SW	Video/Component Selection	Video: Low Component: High	
	18	 0	PeriPow_SW	Power consumption SW in ST	Normal: High Standby: Low	
	19	0	FanDrive SW	Fan Drive ON/OFF	Fan Drive ON: High OFF: Low	
104000		0	SCLK	3-Line Serial Clock	Tan Brive Civ. High Ci 1 . Low	
IC1806	12 13	0	SDATA	3-Line Serial Data		
				DAC	Data Effective: Low	
	14	0	DAC_STLOBE	S&H	Data Effective: High	
	15	0	S&H_STLOBE		Data Effective: Low	
	16	0	IRM_STLOBE	White Uniformity Digital Pot.Chip Enabnle	Data Effective: Low	
	17	0	FAN_CONT2		Fan Control ON: High	
	18	0	FAN_CONT1	Fan Voltage Enable	Pan Control ON. High	
	19	0	Not used			
IC1807	12	0	Not used	V		
	13	0	DVS2	Vsync x 2Hz Output	Output Clock ON: High	
	14	0	LAMP_ON	Output Clock ON/OFF	Output Clock ON: High	
	15	0	LIM-OFF		AD Down Down High	
	16	0	PWDN	For AD9884 Power Down	AD Power Down: High	
	17	0	NYSE			
	18	0	CTS33	RS232C Relation	<u> </u>	
	19	0	Not used			
IC1808	2		KI1	Main Key Switch		
	3		K12	Main Key Switch		
	4		KI3	Main Key Switch		
	. 5	<u> </u>	KI4	Main Key Switch		
,	6		Power_fail	Power Fail Detection	Abnormal: Low Normal: High	
	7	<u> </u>	Not used			
	8		Lamp_ERR	Lamp Fail	Abnormal: Low Normal: High	
	9		Not used			
IC1809	2		S_IN			
	3	i i	CB_SW	Component		
	4	I	CR_SW	Component		
	.5		CTS/V			
	6			OEM Option		
	7	l i		OEM Option		
	8			OEM Option		
	9		1	SVGA/Video grade SW	SVGA: Low Video Grade: High	

■ Waveforms





TP561 S&H B-INTPUT	IDUS/div (10us/div) (1	
TP562 S&H B-OUTPUT	DHS Signal DHS Signal DHS Signal	
TP513 S&H B-OUTPUT	DHS Signal	

Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

- Remove the cabinet top following to "Mechanical Disassemblies".
- 2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:

Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resinbased nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.

Be sure to readjust the optical system after performing disassembly cleaning.

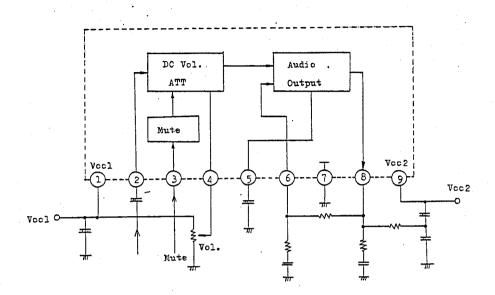
- 1. Remove the cabinet top and main units following to "Mechanical Disassemblies".
- Remove the optical base top following to "Optical Unit Disassemblies". If the LCD panel needs cleaning, remove the LCD panel unit following to "LCD panel replacement".
- Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

Caution:

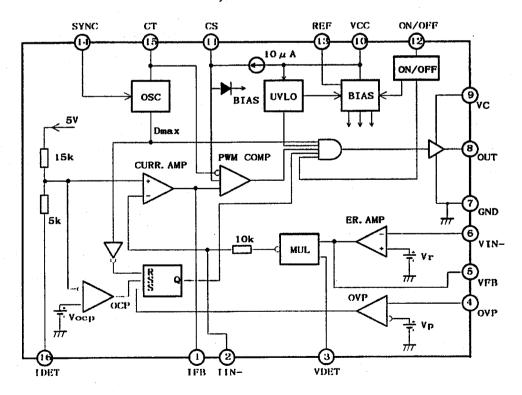
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.

Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

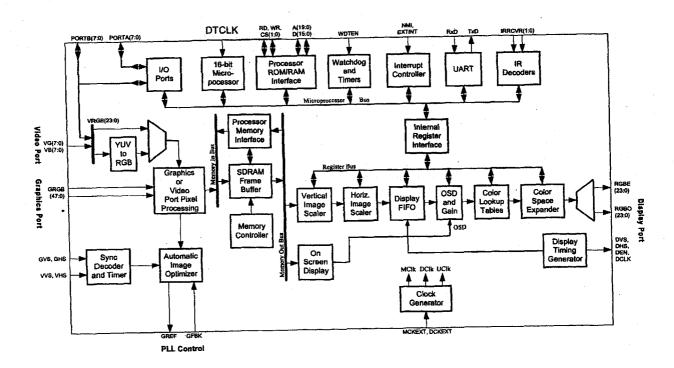
● AN5265 <AUDIO OUTPUT, IC001>



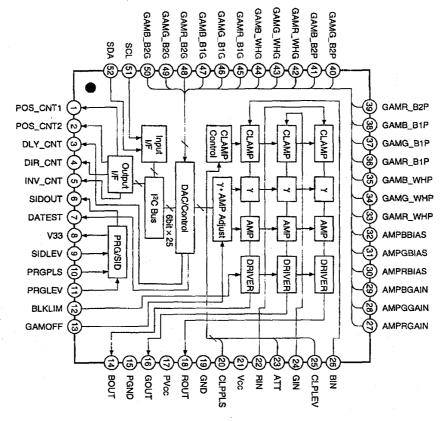
● FA5332M <Power Factor Control, IC01>



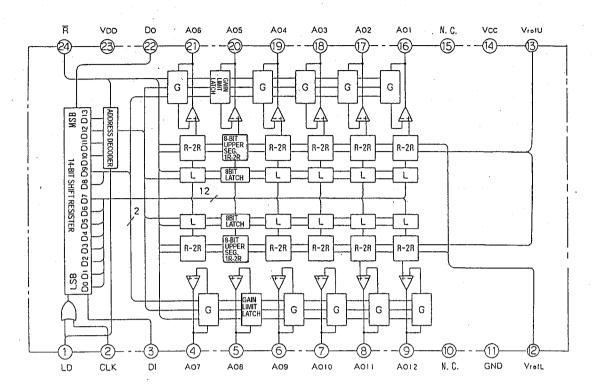
PW164-10RK <System Control/Scan Converter, IC301>



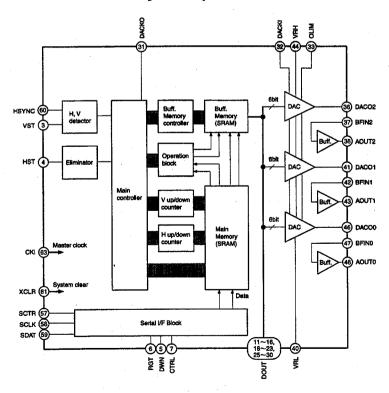
● CXA2111R <LCD Driver, IC401>



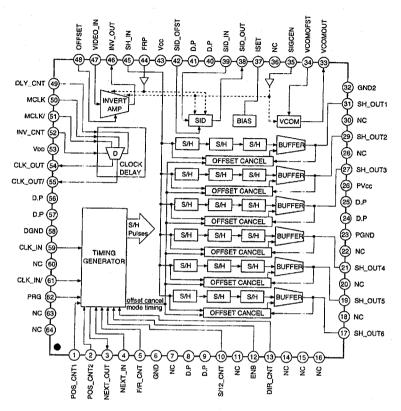
● M62358FP <DAC, IC431>



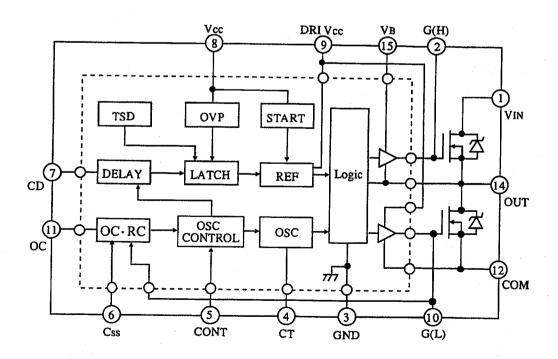
● CXD3503R <White Uniformity Compensation, IC471>



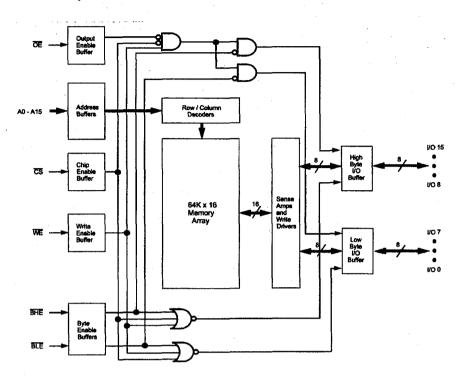
● CXA2112R <Sample & Hold, IC501, IC531, IC561>



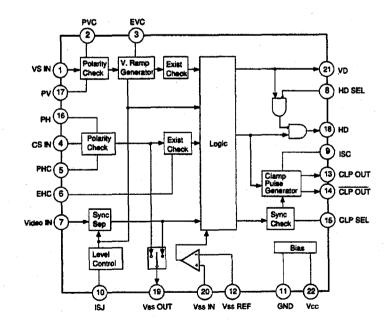
● STR-Z2156 <Power Switching Control, IC631>



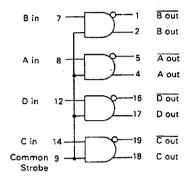
• IDT71V016S <RAM, IC811>



● CXA2016S <Sync Separator, IC1021>

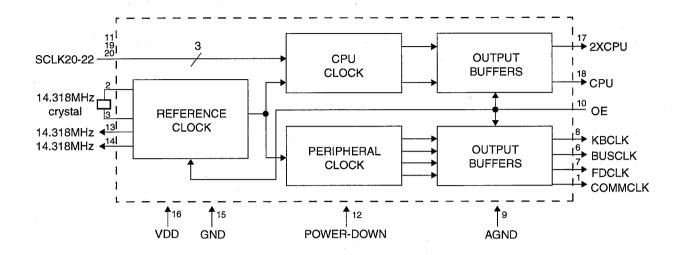


● MC10H351ML <IC1501>

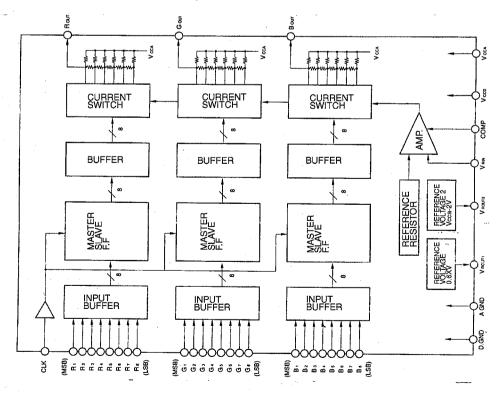


● LM76CHMX <Thermal Sensor, IC1831, IC1832>

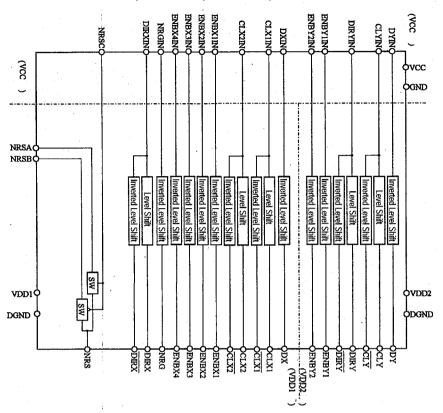
● AV9155C <PLL, IC1961>



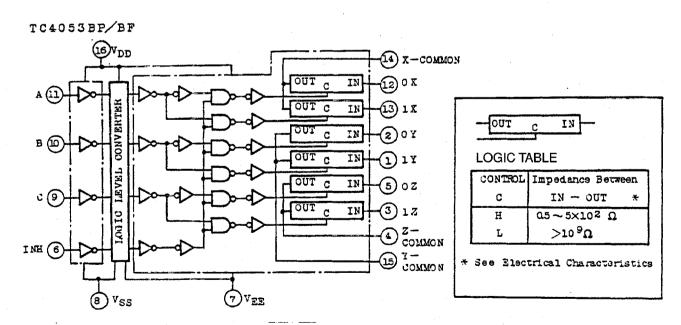
● MB40988PFQ<D/A Converter, IC2200>



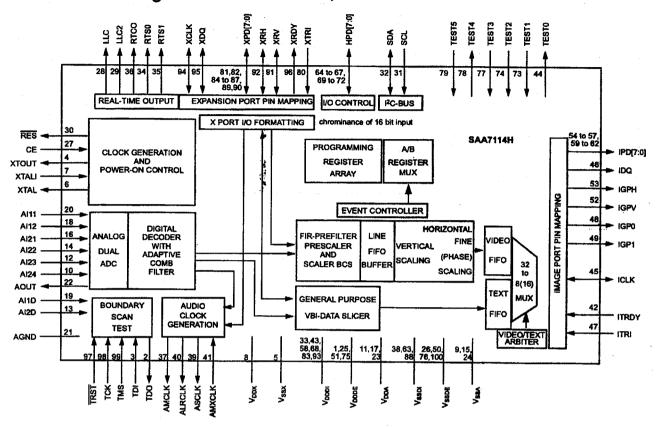
● ET1030F0A <Level Shift, IC3501, IC3531, IC3561>



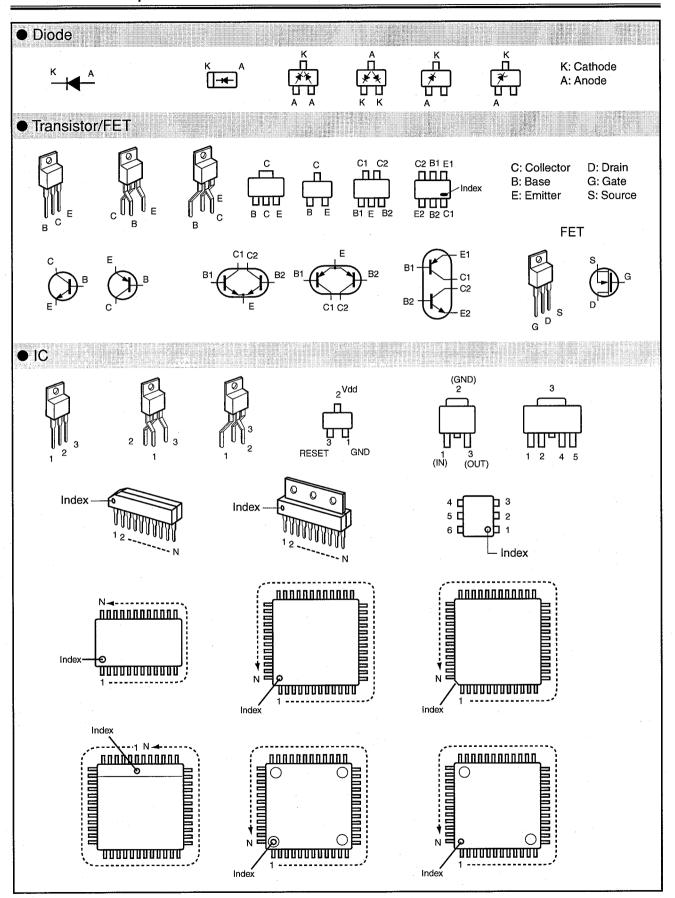
● TC4053BF <Switching, IC5001>



● SAA7114H < Digital Video Processor, IC5101>



■ Pin description of diode, transistor and IC



■ Parts description and reading in schematic diagram

- 1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
- 2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
- 3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
- Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading 2000 K K 1000 BG Example Characteristic Example 160 Ē M 10 Capacitance value Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF. Tolerance Type Rated voltage

Material table

Mark	Material
Ε	Electrolytic
Р	Electrolytic (non-polarized)
С	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
Н	Metalized polypromylar
В	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
Т	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

• Tolerance table

Mark	Tolerar	ice			
Α	not specified				
В	±0.				
С	±0.	25			
D	±0.	5			
F	±1.				
G	±2				
E	±2.	5			
H	±3				
J	±5				
K	± 0				
M	±20				
N	±30				
Р	+100	-0			
Q	+30	-10			
I T	+50	-10			
U	+75	-10			
V	+20	-10			
W	+100 -10				
X	+40	-20			
Υ	+150	-10			
Z	+80	-20			

Example L2 C1 4R7 K N Tolerance Inductance value Manufacture code

Mark	Tolerance (nH)	Mark	Tolerance (%)
С	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		М	±20

Unique code

Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Tolerance table

Tolerance (see below table)
Material (see below table)
Rated wattage (W)

į	Mark	Material
	D	Carbon
į	N	Metal film
	S	Oxide metal film
	С	Solid
	G	Metal glaze
	W	Wire wounding or cement
	Н	Ceramic
	F	Fusible

Mark	Tolerance
Α	±0.05
В	±0.1
С	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
Р	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

Transistor

(1) NPN type

Mark	Type number					
	2SC536	2SC945A	2SC1815	2SC1740S		
AD	NF, NG	PA, QA, RA	Y, GR	Q, R, S		
ΑE	NF, NG	PA, QA	O, Y, GR	Q, R, S		

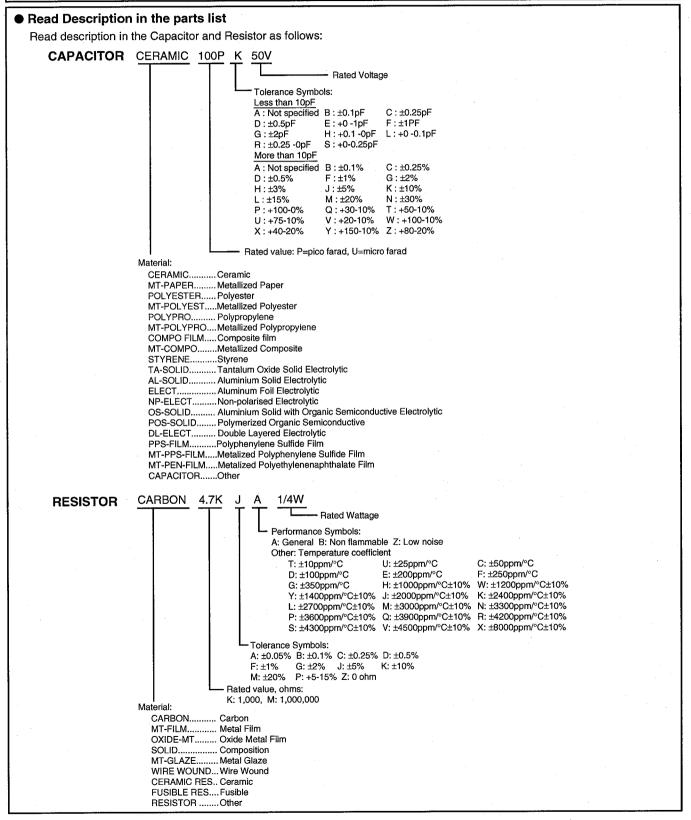
(2) PNP type

Mark	Type number					
	2SA608	2SA564A	2SA1015	2SA933S		
AB	NF	R	Y, GR	R		
AC	NF	Q, R	O, Y, GR	Q, R		

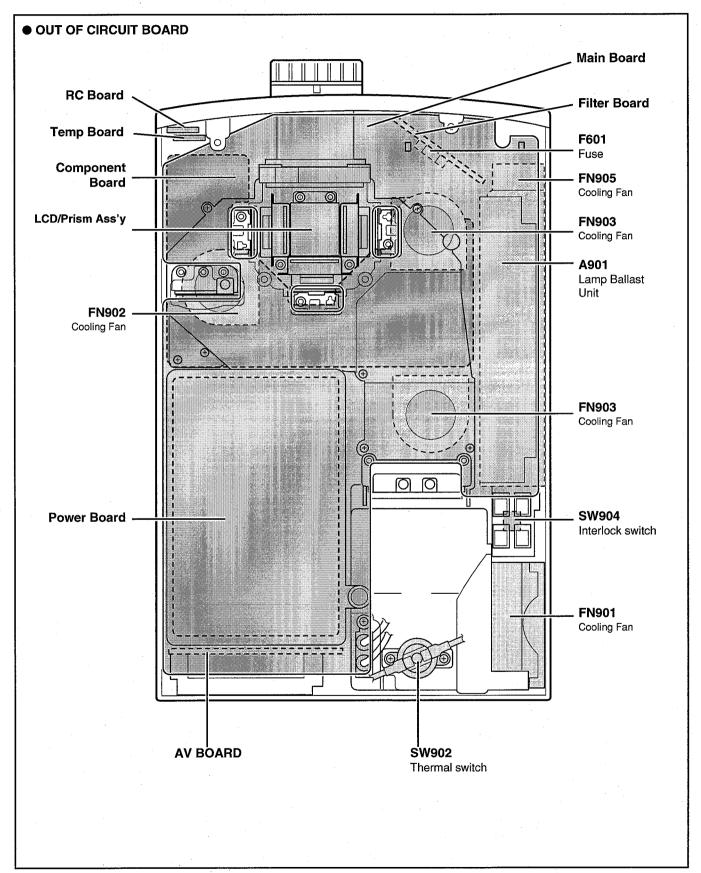
(3) Chip type

Mark	Type number						
	2SA1179	2SA1037K	2SA1037AK	2SC2812	2SC2412K		
AJ	M6, M7	R, S	R, S				
AH				L6, L7	R, S		

Product safety should be considered when a component replacement is made in any area of a projector. Components indicated by a \triangle mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.



Note: Parts order must contain Chassis No., Part No., and Descriptions.



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
OUT OF C	IRCUIT BOAR	DS	RESISTOR		
			R1011	401 105 0405	MT-GLAZE 100 JA 1/16W
△ LP900	610 287 5386	LAMP ASSY (POA-LMP25)	R1021	401 105 0405	MT-GLAZE 100 JA 1/16W
Δ .	610 291 0032	LAMP ASSY (POA-LMP34)	R1024	401 105 0504	MT-GLAZE 1K JA 1/16W
△ L901	645 044 6207	CORE, FERRITE	R1026	401 203 9805	MT-GLAZE 2.7K FA 1/16W
MISCELLAN	EOUS		R1027	401 247 0202	MT-GLAZE 3.9K FA 1/16W
△ A901	645 041 5302	UNIT, BALLAST	R1028 R1031	401 105 0405 401 105 0603	MT-GLAZE 100 JA 1/16W MT-GLAZE 10K JA 1/16W
∆ C901	404 071 4507	CERAMIC 470P K 400V	R1031 R1032	401 105 0503	MT-GLAZE 10K JA 1/16W MT-GLAZE 1K JA 1/16W
∆ C902	404 071 4507	CERAMIC 470P K 400V	R1032 R1035	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
Δ fN901	645 041 6057	MOTOR, FAN DC 1.86W	R1035	401 105 7505	MT-GLAZE 100 JA 1/16W
\triangle FN902	645 041 7856	MOTOR, FAN DC 2.2W	R1037	401 105 0405	MT-GLAZE 100 JA 1/16W
△ FN903	645 041 7856	MOTOR, FAN DC 2.2W	R1043	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
△ FN904	645 041 6088	MOTOR, FAN DC 1.56W	R1049	401 105 4205	MT-GLAZE 33K JA 1/16W
△ FN905	645 042 7824	MOTOR, FAN DC 0.6W	R1051	401 105 2706	MT-GLAZE 220 JA 1/16W
⚠ IL901	645 041 4978	SOCKET, INLET AC	R1053	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
SP901	645 030 6150	SPEAKER, 8	R1054	401 211 9903	MT-GLAZE 12K FA 1/16W
△ SW902	645 026 5457	SWITCH, THERMAL	R1056	401 211 9903	MT-GLAZE 12K FA 1/16W
A 0140.04	645 041 9164	SWITCH, THERMAL	R1067	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
△ SW904 WK3C-K6J	645 024 8986 645 043 5621	SWITCH, PUSH 2P-2TX2 CORD, ID CONNECTOR	R1068	401 105 2706	MT-GLAZE 220 JA 1/16W
WK3C-K6U	645 043 5638	CORD, ID CONNECTOR	R1071	401 105 2805	MT-GLAZE 2.2K JA 1/16W
WK8CC-BA	645 043 5645	CORD, ID CONNECTOR	R1075	401 105 0504	MT-GLAZE 1K JA 1/16W
WK8CC-BA WK8D-RC	645 040 1596	CORD, ID CONNECTOR	R2001	401 105 4205	MT-GLAZE 33K JA 1/16W
WK8G-K8H		CORD, ID CONNECTOR	R2002	401 105 0405	MT-GLAZE 100 JA 1/16W
WILOG ILOII	045 044 1255	001.27.22 00111.201011	R2003TM	401 027 6608	CARBON 75 JA 1/6W
			R2007TM	401 027 6608	CARBON 75 JA 1/6W
610 286 62	254 ASSY,PWE	R AV MKAA	R2011TM	401 027 6608	CARBON 75 JA 1/6W CARBON 75 JA 1/6W
1AA0B10C		5,/A & 1411.60/A	R2013TM	401 027 6608 401 027 6608	CARBON 75 JA 1/6W CARBON 75 JA 1/6W
IAAUDIUC	202UA		R2016TM R2018	401 027 5509	MT-GLAZE 470K JA 1/16W
			R2018 R2019	401 105 0405	MT-GLAZE 470K 0A 1/16W
TRANSISTO	R		R2021	401 105 5509	MT-GLAZE 470K JA 1/16W
Q1001	405 132 3101	TR DTC114EKA-T146	R2022	401 105 0405	MT-GLAZE 100 JA 1/16W
Q1002	405 132 3101	TR DTC114EKA-T146	R2023	401 105 5509	MT-GLAZE 470K JA 1/16W
INTECDATE	D CIDCUIT		R2024	401 105 0405	MT-GLAZE 100 JA 1/16W
INTEGRATE	409 461 7304	IC AD8057ART	R2026	401 105 5509	MT-GLAZE 470K JA 1/16W
IC1001 IC1021	409 417 1400	IC CXA2016S	R2027	401 105 0405	MT-GLAZE 100 JA 1/16W
101021	409 417 1400	IC CARZUIOS	R2093	401 105 0702	MT-GLAZE 100K JA 1/16W
CAPACITOR			R2094	401 105 0405	MT-GLAZE 100 JA 1/16W
C1006	403 157 3601	CERAMIC 100P J 50V	R2096	401 105 0702	MT-GLAZE 100K JA 1/16W
C1007	403 348 5803	CERAMIC 0.47U K 10V	R2097	401 105 0405	MT-GLAZE 100 JA 1/16W
C1009	403 157 1904	CERAMIC 10P D 50V	COIL		
C1011	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L1001	645 024 0669	FILTER, EMI 20PF
C1014	403 162 4006	ELECT 22U M 6.3V	L1002		FILTER, EMI 20PF
C1016	403 298 9609	CERAMIC 0.1U K 16V	L1003	645 024 0669	
C1017	403 162 4006	ELECT 22U M 6.3V	L1006	645 025 0637	
C1018	403 298 9609	CERAMIC 0.1U K 16V TA-SOLID 2.2U M 16V	L1007	645 025 0637	
C1028	403 205 7803 403 325 6304		L1017	645 014 2659	
C1029	403 325 6304	CERAMIC 0.22U K 10V CERAMIC 0.22U K 10V	L1018	645 014 2659	
C1031 C1032	403 325 6304	TA-SOLID 1U M 16V	L1019	645 014 2659	
C1032	403 091 0209	CERAMIC 0.1U K 16V	L1021	645 014 2659	FILTER, EMI 10MHZ
C1033	403 298 9809	CERAMIC 0.10 K 10V	L1022	645 014 2659	FILTER, EMI 10MHZ
C1034 C1036	403 325 6304	TA-SOLID 1U M 16V	L1023	645 014 2659	FILTER, EMI 10MHZ
C1038	403 091 0209	CERAMIC 0.1U K 16V	L1024	645 014 2659	
C1038	403 162 4006	ELECT 22U M 6.3V	L2001	403 366 6202	CERAMIC 22U Z 10V
C1039	403 155 2200	CERAMIC 3300P K 50V	L2002	403 366 6202	CERAMIC 22U Z 10V
C1043	403 298 9609	CERAMIC 0.1U K 16V	L2003	645 014 2659	
C1046	403 298 9609	CERAMIC 0.1U K 16V	L2004		FILTER, EMI 50MHZ
	403 298 9609	CERAMIC 0.1U K 16V	L2006		FILTER, EMI 50MHZ
C2001	403 068 9006	CERAMIC 100P K 50V	L2007		FILTER, EMI 50MHZ
C2001 C2018TM		CERAMIC 100P J 50V	L2008		FILTER, EMI 50MHZ
C2018TM	403 157 3601			C4E 000 2024	
C2018TM C2021TM	403 157 3601 403 068 9006	CERAMIC 100P K 50V	L2009	645 002 3934	
C2018TM C2021TM C2023TM	403 068 9006		L2011TM	403 258 7102	NP-ELECT 100U M 10V
C2018TM C2021TM C2023TM C2026TM		CERAMIC 100P K 50V	L2011TM L2012	403 258 7102 403 366 6202	NP-ELECT 100U M 10V CERAMIC 22U Z 10V
C2018TM C2021TM C2023TM	403 068 9006 403 157 3601	CERAMIC 100P K 50V CERAMIC 100P J 50V CERAMIC 100P K 50V	L2011TM	403 258 7102 403 366 6202 403 366 6202	NP-ELECT 100U M 10V

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
L2017	645 014 2659	FILTER, EMI 10MHZ		405 014 4608	TR 2SC2412K T146 S
L2021	645 014 2659	FILTER, EMI 10MHZ		405 015 8704	TR 2SC2812-L6-TB
L2022	645 014 2659	FILTER, EMI 10MHZ		405 015 8902	TR 2SC2812-L7-TB
L2091	645 014 2659	FILTER, EMI 10MHZ	Q2661	405 014 4509	TR 2SC2412K T146 R
L2092	645 014 2659	FILTER,EMI 10MHZ		405 014 4608	TR 2SC2412K T146 S TR 2SC2812-L6-TB
DIODE				405 015 8704 405 015 8902	TR 2SC2812-L6-TB
D1001	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	Q2671	405 013 0902	TR 2SC2412K T146 R
D1002	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	22071	405 014 4608	TR 2SC2412K T146 S
D1003	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 015 8704	TR 2SC2812-L6-TB
D1006	407 187 8209	ZENER DIODE UDZ12B-TE-17		405 015 8902	TR 2SC2812-L7-TB
D1007 D1008	407 187 8209 407 149 0807	ZENER DIODE UDZ12B-TE-17 DIODE 1SS355-TE-17	Q2681	405 014 4509	TR 2SC2412K T146 R
D1008	407 149 0807	DIODE 1SS355-TE-17 DIODE 1SS355-TE-17		405 014 4608	TR 2SC2412K T146 S
D1010	407 149 0807	DIODE 1SS355-TE-17		405 015 8704	TR 2SC2812-L6-TB
D1012	407 149 0807	DIODE 1SS355-TE-17	00.001	405 015 8902	TR 2SC2812-L7-TB
D1013	407 149 0807	DIODE 1SS355-TE-17	Q2691	405 014 4509 405 014 4608	TR 2SC2412K T146 R TR 2SC2412K T146 S
D1014	407 149 0807	DIODE 1SS355-TE-17		405 014 4008	TR 2SC2812-L6-TB
D1021	407 187 8605	ZENER DIODE UDZ20B-TE-17		405 015 8902	TR 2SC2812-L7-TB
D1022	407 187 8605	ZENER DIODE UDZ20B-TE-17	Q2701	405 047 9007	TR 2SB1204-S-TL
D1023	407 187 8605	ZENER DIODE UDZ20B-TE-17		405 047 9106	TR 2SB1204-T-TL
D1024 D1026	407 187 8605 407 187 8605	ZENER DIODE UDZ20B-TE-17 ZENER DIODE UDZ20B-TE-17	Q2702	405 014 4509	TR 2SC2412K T146 R
D1020	407 187 8605	ZENER DIODE UDZ20B-TE-17		405 014 4608	TR 2SC2412K T146 S
D1028	407 187 8605	ZENER DIODE UDZ20B-TE-17		405 015 8704	TR 2SC2812-L6-TB
D1029	407 187 8605	ZENER DIODE UDZ20B-TE-17	Q6611	405 015 8902 405 014 4509	TR 2SC2812-L7-TB TR 2SC2412K T146 R
D1031	407 187 8605	ZENER DIODE UDZ20B-TE-17	Ž6011	405 014 4608	TR 2SC2412K T146 K
D2001	407 187 8209	ZENER DIODE UDZ12B-TE-17		405 015 8704	TR 2SC2812-L6-TB
D2002	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 015 8902	TR 2SC2812-L7-TB
D2003	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	INTEGRATE	D CIDCUIT	
D2004 D2006	407 179 0501 407 179 0501	ZENER DIODE UDZ6.2B-TE-17 ZENER DIODE UDZ6.2B-TE-17	IC2641	409 461 7809	IC PQ20WZ11
D2000	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	IC2651	409 461 7809	IC PQ20WZ11
D2008	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	IC2661	409 461 7809	IC PQ20WZ11
D2009	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	IC2671	409 461 7809	IC PQ20WZ11
D2011	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	IC2681	409 461 7809	IC PQ20WZ11
D2012	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	IC2691	409 461 7809	IC PQ20WZ11
D2013	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	CAPACITOR	1	
D2016 D2017	407 187 8209 407 187 8209	ZENER DIODE UDZ12B-TE-17 ZENER DIODE UDZ12B-TE-17	C2501	403 229 3508	ELECT 100U M 16V
D2017	407 187 8209	ZENER DIODE UDZ12B-TE-17		403 335 0408	ELECT 100U M 16V
D2019	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2502	403 164 0204	CERAMIC 0.1U Z 25V
D2021	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2503	403 164 0204 403 164 0204	CERAMIC 0.1U Z 25V CERAMIC 0.1U Z 25V
D2022	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2504 C2506	403 164 0204	CERAMIC 0.1U Z 25V CERAMIC 0.1U Z 25V
D2023	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2507	403 164 0204	
D2024	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2508	403 164 0204	
D2091 D2092	407 187 8209 407 187 8209	ZENER DIODE UDZ12B-TE-17 ZENER DIODE UDZ12B-TE-17	C2511	403 341 8801	ELECT 10U M 25V
D2092	407 187 8209		C2512	403 164 0204	CERAMIC 0.1U Z 25V
D2.094	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2513	403 341 8801	ELECT 10U M 25V
			C2514	403 164 0204	CERAMIC 0.1U Z 25V
MISCELLAN		SOCKET, D-SUB 15P	C2516 C2517	403 341 8801 403 164 0204	ELECT 10U M 25V CERAMIC 0.1U Z 25V
K1001 K1002	645 009 8093 645 000 2595	SOCKET, D-SOB 15P SOCKET, DIN 8P	C2517	403 229 3508	ELECT 100U M 16V
K2001	610 010 8295	SOCKET, DIN 4P	. 02041	403 335 0408	ELECT 100U M 16V
K2002	645 042 2799	JACK, RCA-3	C2642	403 149 9208	CERAMIC 0.01U Z 50V
K2003	645 000 2571	JACK, PHONE D8.0	C2643	403 149 9208	CERAMIC 0.01U Z 50V
K2004	645 000 2571	JACK, PHONE D8.0	C2651	403 229 3508	ELECT 100U M 16V
K2005	645 000 2571	JACK, PHONE D8.0		403 335 0408	ELECT 100U M 16V
SW1001	645 042 8104	SWITCH, PUSH 1P-1TX1	C2652	403 149 9208	CERAMIC 0.01U Z 50V
			C2653	403 149 9208	CERAMIC 0.01U Z 50V
640,000,0	net Accy Divis	COMPONENT MAKES	C2661	403 229 3508 403 335 0408	ELECT 100U M 16V ELECT 100U M 16V
	•	B,COMPONENT MK6A	C2662	403 149 9208	CERAMIC 0.01U Z 50V
1AA0B10C	202UB		C2663	403 149 9208	CERAMIC 0.01U Z 50V
			C2671	403 229 3508	ELECT 100U M 16V
TRANSISTO	R			403 335 0408	ELECT 100U M 16V
Q2651	405 014 4509	TR 2SC2412K T146 R	C2672	403 149 9208	CERAMIC 0.01U Z 50V

Ref. No.	Part No.	Descriptio	n	Ref. No.	Part No.	Description
·	<u> </u>	L			1	
C2673 C2681	403 149 9208 403 229 3508	CERAMIC ELECT	0.01U Z 50V 100U M 16V	R2671 R2672	401 105 7909 401 105 5301	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 4.7K JA 1/16W
02002	403 335 0408	ELECT	100U M 16V	R2676	401 105 2409	MT-GLAZE 2K JA 1/16W
C2682	403 149 9208	CERAMIC	0.01U Z 50V	R2677	401 162 6303	MT-GLAZE 330 JA 1W
C2683	403 149 9208	CERAMIC	0.01U Z 50V	R2678	401 162 6303	MT-GLAZE 330 JA 1W
C2691	403 229 3508	ELECT	100U M 16V	R2679	401 162 6303	MT-GLAZE 330 JA 1W
20.500	403 335 0408	ELECT	100U M 16V	R2681	401 102 7506	MT-GLAZE 22 JA 1W
C2692 C2693	403 149 9208 403 149 9208	CERAMIC CERAMIC	0.01U Z 50V 0.01U Z 50V	R2682 R2683	401 102 7506 401 102 7506	MT-GLAZE 22 JA 1W MT-GLAZE 22 JA 1W
C6614	403 229 3508	ELECT	100U M 16V	R2684	401 102 7500	MT-GLAZE 1K JA 1/16W
	403 335 0408	ELECT	100U M 16V	R2686	401 105 0504	MT-GLAZE 1K JA 1/16W
C6616	403 229 3508	ELECT	100U M 16V	R2687	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	403 335 0408	ELECT	100U M 16V	R2688	401 105 5301	MT-GLAZE 4.7K JA 1/16W
RESISTOR				R2693	401 105 2409	MT-GLAZE 2K JA 1/16W
R2500	401 105 0306	MT-GLAZE	10 JA 1/16W	R2694 R2695	401 162 6303 401 162 6303	MT-GLAZE 330 JA 1W MT-GLAZE 330 JA 1W
R2501	401 035 4108	MT-GLAZE	0.000 ZA 1/8W	R2695 R2696	401 162 6303	MT-GLAZE 330 JA 1W
R2502	401 035 4108	MT-GLAZE	0.000 ZA 1/8W	R2697	401 102 7506	MT-GLAZE 22 JA 1W
R2504	401 105 0306	MT-GLAZE	10 JA 1/16W	R2698	401 102 7506	MT-GLAZE 22 JA 1W
R2506 R2507	401 105 0306 401 105 0306	MT-GLAZE MT-GLAZE	10 JA 1/16W 10 JA 1/16W	R2699	401 102 7506	MT-GLAZE 22 JA 1W
R2507	401 105 0306	MT-GLAZE	10 JA 1/16W	R2701	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R2509	401 105 0306	MT-GLAZE	10 JA 1/16W	R2702	401 230 4705	MT-GLAZE 680 JA 1W
R2511	401 105 0306	MT-GLAZE	10 JA 1/16W	R2703 R2704	401 113 6109	MT-GLAZE 2.4K JA 1/16W
R2512	401 105 0306	MT-GLAZE	10 JA 1/16W	R6614	401 105 0504 401 105 0603	MT-GLAZE 1K JA 1/16W MT-GLAZE 10K JA 1/16W
R2513	401 148 6006	MT-GLAZE	2.2 JA 1/16W	R6616	401 105 0603	MT-GLAZE 10K JA 1/16W
R2514	401 148 6006	MT-GLAZE	2.2 JA 1/16W	R6618	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R2520 R2521	401 105 7909 401 105 0306	MT-GLAZE MT-GLAZE	0.000 ZA 1/16W	R6619	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2521 R2522	401 105 0306	MT-GLAZE	10 JA 1/16W 10 JA 1/16W	R6631	401 105 0504	MT-GLAZE 1K JA 1/16W
R2523	401 105 0306	MT-GLAZE	10 JA 1/16W	R6633	401 105 0504	MT-GLAZE 1K JA 1/16W
R2524	401 105 0306	MT-GLAZE	10 JA 1/16W	R6634	401 113 6208	MT-GLAZE 3.6K JA 1/16W
R2525	401 105 0306	MT-GLAZE	10 JA 1/16W	R6635 R6641	401 105 7909 401 105 6001	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 5.6K JA 1/16W
R2526	401 105 0306	MT-GLAZE	10 JA 1/16W	R6642	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2528	401 105 0306	MT-GLAZE	10 JA 1/16W	R6643	401 105 2409	MT-GLAZE 2K JA 1/16W
R2529 R2531	401 105 0306 401 148 6006	MT-GLAZE MT-GLAZE	10 JA 1/16W 2.2 JA 1/16W	R6644	401 288 0506	MT-GLAZE 750 JA 1W
R2531	401 148 6006	MT-GLAZE	2.2 JA 1/16W 2.2 JA 1/16W	R6645	401 288 0506	MT-GLAZE 750 JA 1W
R2538	401 148 6006	MT-GLAZE	2.2 JA 1/16W	R6646	401 288 0506	MT-GLAZE 750 JA 1W
R2539	401 148 6006	MT-GLAZE	2.2 JA 1/16W	R6647 R6648	401 104 6002 401 104 6002	MT-GLAZE 100 JA 1W MT-GLAZE 100 JA 1W
R2540	401 105 0306	MT-GLAZE	10 JA 1/16W	R6649	401 104 6002	MT-GLAZE 100 JA 1W
R2542	401 105 0306	MT-GLAZE	10 JA 1/16W	R6651	401 105 0504	MT-GLAZE 1K JA 1/16W
R2543	401 105 0306	MT-GLAZE	10 JA 1/16W	R6653	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2544 R2545	401 105 0306 401 105 0306	MT-GLAZE MT-GLAZE	10 JA 1/16W 10 JA 1/16W	R6661	401 105 0504	MT-GLAZE 1K JA 1/16W
R2546	401 105 0306		10 JA 1/16W	R6663	401 105 0504	
R2548	401 105 0306		10 JA 1/16W	R6664	401 113 6208	
R2549	401 105 0306	MT-GLAZE	10 JA 1/16W	R6665 R6671	401 105 7909 401 105 0504	•
R2641	401 105 1501	MT-GLAZE	1.5K JA 1/16W	R6673	401 105 0304	
R2642	401 105 6001		5.6K JA 1/16W	R6681	401 105 6001	
R2643	401 105 2409	MT-GLAZE	2K JA 1/16W	R6682	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2647 R2648	401 102 7506 401 102 7506	MT-GLAZE MT-GLAZE	22 JA 1W 22 JA 1W	R6683	401 105 2409	MT-GLAZE 2K JA 1/16W
R2649TM	401 102 7506	MT-GLAZE	22 JA 1W	R6684	401 162 6303	MT-GLAZE 330 JA 1W
R2651	401 105 0504	MT-GLAZE	1K JA 1/16W	R6685	401 162 6303	
R2653	401 113 6208	MT-GLAZE	3.6K JA 1/16W	R6686 R6687	401 162 6303 401 198 7909	MT-GLAZE 330 JA 1W MT-GLAZE 47 JA 1W
R2654	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6688	401 198 7909	
R2655	401 105 6001	MT-GLAZE	5.6K JA 1/16W	R6689	401 198 7909	MT-GLAZE 47 JA 1W
R2659	401 105 2409	MT-GLAZE	2K JA 1/16W	R6691	401 105 0504	
R2661 R2662	401 185 9701 401 185 9701	MT-GLAZE MT-GLAZE	470 JA 1W 470 JA 1W	R6693	401 105 7909	
R2663	401 185 9701		470 JA 1W	R6697	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2664	401 198 7503	MT-GLAZE	15 JA 1W	COIL		
R2665	401 198 7503	MT-GLAZE	15 JA 1W	L2501	401 036 8907	MT-GLAZE 5.6 JA 1/8W
R2666	401 198 7503	MT-GLAZE	15 JA 1W	DIODE		
R2667	401 105 0504	MT-GLAZE	1K JA 1/16W	D2502	407 149 0807	DIODE 1SS355-TE-17
R2669	401 105 0504	MT-GLAZE	1K JA 1/16W	D2641		DIODE 1SS355-TE-17

Electrical Par	1				D. (N.	D N				
Ref. No.	Part No.	Description)		Ref. No.	Part No), . 	Description	1	
D2651	407 149 0807	DIODE 1SS3								
D2661	407 149 0807	DIODE 1SS3			ASSY,PWB,I	POWER I	AK6A			
D2671 D2681	407 149 0807 407 149 0807	DIODE 1SS3								
D2691	407 149 0807	DIODE 1SS3			TDANCICTO	n				
D6611	407 004 0706	DIODE DCB0			TRANSISTOI 0611	n 405 140	3704	TR 2SK2698		
					Q641	405 134		TR 2SA1037	АК-Т146-R	
					Q661	405 014		TR 2SC2412F		
610 286 93	309 ASSY,PWE	B,R/C MK6A			Q662	405 014	4509	TR 2SC2412F	K T146 R	
1AA0B10C2	2820C				Q663	405 014		TR 2SC2412F		
*					Q671	405 138		TR 2SB1565-		
CAPACITOR					0672	405 138 405 014		TR 2SB1565- TR 2SC2412E		
C2801	403 283 6309	CERAMIC	1U Z	10V	Q672 Q681	405 014		TR 2SC2412E	1146 K	
C2802	403 157 6602	CERAMIC	470P K	50V	- ·			IN ZBRZJIZ		
C2803	403 304 2402	ELECT	100U M	10V	INTEGRATEI			TO 000 001	- 7	
RESISTOR					IC631	409 421		IC STR-Z215		
RC2801	645 034 5029	UNIT, REMOC	ON RECEIVE	ER	IC656	409 344	0009	TC OECTOBS		
R2801	401 105 2706	MT-GLAZE	220 JA		CAPACITOR				40	
R2802	401 105 0405	MT-GLAZE	100 JA	1/16W	C611	403 165		CERAMIC	1000P K	1K
R2803	401 105 2706	MT-GLAZE	220 JA	1/16W	C612 C616	403 165 403 275		CERAMIC MT-POLYEST	1000P K	1K 400V
					C616 C617	403 275		ELECT	470U M	25V
040 000 00	00 4007 577		Wet em	VICE	C618	404 084		ELECT	120U M	450V
610 289 38	09 ASSY,PWE	3,POWER IV	K6A SER	VICE	C619	403 323	8706	MT-POLYEST	0.047U K	450V
					C620	403 323	8706	MT-POLYEST	0.047U K	450V
ASSY,PWB,H	HIC MK6A				C630	403 156		ELECT	2.2U M	50V
, , , , , , , , , , , , , , , , , , , ,					C631	403 237		MT-COMPO	0.22U J	50V
	_				C632	403 069 403 165		CERAMIC CERAMIC	1000P K 330P K	50V 2K
TRANSISTOR		mp 2002412	TZ TD1 4 6 TD		C633 C634	403 103			0.1U Z	50V
Q01 Q02	405 014 4509 405 134 5905	TR 2SC2412			C635	403 232		CERAMIC	100P K	2K
		IK 25A1057.	W-1140-V		C636	403 084		POLYPRO	6800P J	630V
INTEGRATED					C637	403 074	9502	CERAMIC	680P K	50V
IC01	409 483 3803	IC FA5332M			C638	403 156		ELECT	1U M	50V
CAPACITOR					C639	403 148		ELECT	220U M	35V
C01	403 074 9502	CERAMIC	680P K	50V	C640 C641	403 070 403 269		CERAMIC CERAMIC	0.1U Z 0.22U K	50V 16V
C02	403 075 2304	CERAMIC	0.068U Z	50V	C641 C642	403 269		CERAMIC	0.220 K	50V
C03	403 070 2606 403 030 7009	CERAMIC	0.1U Z 68P J	50V 50V	C643	403 166		TA-SOLID	0.47U M	25V
C04 C05	403 030 7009	CERAMIC CERAMIC	0.01U K	50V 50V	∆ C648	404 059		CERAMIC	1000P M	400V
C05	403 009 3001	CERAMIC	470P K	50V	∆ C649	404 059	9203	CERAMIC	1000P M	400V
C07	403 070 2606	CERAMIC	0.1U Z	50V	C651	403 350		ELECT	1000U M	25V
C08	403 074 3104	CERAMIC	0.047U Z	50V	C652	403 356		ELECT	3900U M	10V
C10	403 070 2606	CERAMIC	0.1U Z	50V	C653	403 155		ELECT	220U M	10V
C11	403 070 2606	CERAMIC	0.1U Z	50V	C654	403 076 403 076		CERAMIC	330P K 330P K	500V 500V
RESISTOR					C655 C656	403 076		CERAMIC MT-COMPO	0.47U J	500V 50V
R01	401 038 0800	MT-GLAZE	22K JA	1/10W	C671	403 230		ELECT	470U M	25V
R02	401 037 5608	MT-GLAZE	10K JA	1/10W	C683	403 208		ELECT	2200U M	
R03	401 037 9507	MT-GLAZE	1.8M JA		C685	403 208		ELECT	2200U M	
R04	401 038 0503	MT-GLAZE	22 JA		C687	403 208	6001	ELECT	2200U M	6.3V
R05	401 037 5004	MT-GLAZE	0.000 ZA		RESISTOR					
R06 R07	401 037 5004 401 038 3504	MT-GLAZE MT-GLAZE	0.000 ZA 330 JA		R612	402 083	4805	RESISTER	0.1JA	2W
R07	401 038 3504		100 JA		R614	401 237			47K JA	1W
R09	401 037 7909	MT-GLAZE	1.5K JA		R615	401 237			47K JA	1W
R11	401 038 6604	MT-GLAZE	470K JA		R616	401 237			47K JA	1W
R12	401 038 6505		47K JA		R617	401 237			47K JA	1W
R13	401 148 2701		1.1K FA		R618	401 038			4.7 JA	
R14	401 092 3304	MT-GLAZE	1.2K FA	1/10W	R620 R621	401 242 401 242			240K JA 240K JA	
1/14										
VARIABLE R	ESISTOR				R622	401 259	900%	MT - GLAZE	TSUK FA	
	RESISTOR 645 041 5333	VR, SEMI, 1K	M		R622 R623	401 259 401 259			150K FA 150K FA	
VARIABLE R VR01		VR, SEMI, 1K	М				9002	MT-GLAZE		1/2W
VARIABLE R					R623	401 259	9002	MT-GLAZE MT-GLAZE	150K FA	1/2W 1/2W

Electrical Par	l				T
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R627	401 263 0101	MT-GLAZE 100K JA 1W	·	407 187 7806	ZENER DIODE UDZ6.8B-TE-17
R628	401 263 0101	MT-GLAZE 100K JA 1W	D660	407 179 4905	ZENER DIODE UDZ-TE-174.7B
R629	401 263 0101	MT-GLAZE 100K JA 1W	D661	407 149 0807	DIODE 1SS355-TE-17
R631	401 263 0101	MT-GLAZE 100K JA 1W	D665	407 149 0807	DIODE 1SS355-TE-17
R632	401 263 0101	MT-GLAZE 100K JA 1W			
∆ R633 R634	402 079 7803 401 238 4509	FUSIBLE RES 22 JH 1/4W MT-GLAZE 47 JA 1/3W	MISCELLANI	EOUS	
R635	401 038 6307	MT-GLAZE 47 JA 1/3W MT-GLAZE 470 JA 1/10W	FB611	610 229 3531	CORE
R636	401 288 3903	MT-GLAZE 200 JA 1/3W	FB612	610 229 3531	CORE
R637	401 037 5608	MT-GLAZE 10K JA 1/10W	⚠ PC641	408 039 3502	PC TLP721F(D4-GB)
R638	401 037 5202	MT-GLAZE 100 JA 1/10W	A PC642	408 039 3502	PC TLP721F(D4-GB)
R641	401 037 5400	MT-GLAZE 1K JA 1/10W	A PC643	408 039 3502	PC TLP721F(D4-GB)
R642	401 037 5707	MT-GLAZE 100K JA 1/10W	⚠ PC644	408 039 3502	PC TLP721F(D4-GB)
R643	401 037 8005	MT-GLAZE 15K JA 1/10W	△ PTH611	408 037 5607	THERMISTOR NTH11D8R0LC
R644	401 038 0909	MT-GLAZE 220K JA 1/10W			
R645	401 038 9308	MT-GLAZE 68K JA 1/10W			LINE EU TED MAA
R646	401 038 9209	MT-GLAZE 6.8K JA 1/10W		•	B,LINE FILTER MK6A
R654	401 038 2002	MT-GLAZE 270 JA 1/10W	1AA0B10C	2920B	
R655	401 037 5400	MT-GLAZE 1K JA 1/10W			
R656	401 037 5608	MT-GLAZE 10K JA 1/10W	CAPACITOR		
R657	401 038 9209	MT-GLAZE 6.8K JA 1/10W	A C601	404 081 4702	MT-POLYEST 0.22U M 275V
R658	401 037 5103	MT-GLAZE 10 JA 1/10W	△ C601 △ C602	404 081 4702	MT-POLYEST 0.220 M 275V
R659	401 037 5400	MT-GLAZE 1K JA 1/10W	A C603	404 081 4702	MT-POLYEST 0.220 M 275V
R660	401 039 0304	MT-GLAZE 820 JA 1/10W	△ C604	404 081 4702	MT-POLYEST 0.22U M 275V
R661	401 037 5608 401 038 7700	MT-GLAZE 10K JA 1/10W MT-GLAZE 5.6K JA 1/10W	A C606	404 059 9203	CERAMIC 1000P M 400V
R662 R663	401 038 7700	MT-GLAZE 5.0K JA 1/10W MT-GLAZE 6.8K JA 1/10W			
R664	401 030 7207	MT-GLAZE 1.5K JA 1/10W	RESISTOR		
R665	401 038 0701	MT-GLAZE 2.2K JA 1/10W	△ R601	401 008 8607	CARBON 220K JA 1/2W
R666	401 037 9309	MT-GLAZE 18K JA 1/10W	COIL		
R667	401 038 0701	MT-GLAZE 2.2K JA 1/10W	Δ L601	645 041 4961	LINE FILTER
R671	401 238 4400	MT-GLAZE 2.7K JA 1/3W	Δ L602	645 041 4961	LINE FILTER
R672	401 238 4202	MT-GLAZE 1.5K JA 1/3W	MISCELLANI	EOHE	
R673	401 038 6406	MT-GLAZE 4.7K JA 1/10W	MISCELLANI	423 022 2102	FUSE 250V 4A
R674	401 037 5608	MT-GLAZE 10K JA 1/10W	F601A	645 000 5077	HOLDER, FUSE
R681	401 038 0800	MT-GLAZE 22K JA 1/10W	F601B	645 000 5077	HOLDER, FUSE
R682	401 037 5707	MT-GLAZE 100K JA 1/10W	⚠ VA601	408 018 9808	VARISTOR ENC471D-14AS
TRANSFORM	/FR				
⚠ TSW611	645 026 4511	SWITCH, THERMAL			
	645 043 3009	THERMOSTATS	610 287 52	256 ASSY.PWE	B,AUDIO AMP. MK6A
∆ т651	645 042 1921	TRANS, POWER, PULSE	1AA0B10C		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			14405100	23200	
COIL	645 000 0540	TAIDMAND 1000M			
L611	645 039 9749	INDUCTOR, 1800U	INTEGRATEI	CIRCUIT	
L615	610 031 9998 645 007 8125	PIPE CORE	IC001	409 073 1509	IC AN5265
L671 L683	645 007 8125	INDUCTOR,47U K INDUCTOR,100U K	CAPACITOR		
L685	645 007 7975	INDUCTOR, 1000 K INDUCTOR, 1000 K	CAPACITOR C001	403 148 0305	ELECT 470U M 16V
L687	645 007 7975	INDUCTOR, 1000 K	C001	403 148 0305	ELECT 4700 M 16V
l	313 001 1313		C002	403 049 0008	ELECT 10 M 50V
DIODE			C004	403 041 8804	ELECT 10U M 16V
DB611	407 202 7705	DIODE D10XB60	C005	403 041 8804	ELECT 10U M 16V
D611	407 174 2302	DIODE AK06	C006	403 044 9501	ELECT 100U M 25V
D612	407 191 3900	DIODE FML-G16S	C007	403 070 2606	CERAMIC 0.1U Z 50V
D631	407 187 8209	ZENER DIODE UDZ12B-TE-17	C008	403 044 9501	ELECT 100U M 25V
D632	407 190 4106	DIODE SFPL-52V		-	
D633	407 124 6800	DIODE AG01A	RESISTOR	404 007 500	AMD OT A 27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
D634	407 125 5307	ZENER DIODE RD27M-T1BB	R001	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
D635	407 140 0608	ZENER DIODE 02CZ27-TE85L DIODE SFPL-52V	R002	401 037 9309	MT-GLAZE 18K JA 1/10W
D635 D641	407 149 0807	DIODE SFPL-52V DIODE 1SS355-TE-17	R003	401 037 7909	MT-GLAZE 1.5K JA 1/10W
D641 D642	407 206 6308	ZD UDZS-TE-175.1B	R004 R005	401 038 2200 401 110 8601	MT-GLAZE 27K JA 1/10W MT-GLAZE 1 JA 1/10W
D042	407 179 1706	ZENER DIODE UDZ5.1B-TE-17	R005 R006	401 037 5400	MT-GLAZE 1 JA 1/10W MT-GLAZE 1K JA 1/10W
D651	407 202 9808	DIODE FMB-26L	R006 R007	401 037 5400	OXIDE-MT 6.8 JA 2W
D651 D652	407 164 2206	DIODE FMB-24L	1 1007	401 069 0305	
D653	407 190 4106	DIODE SFPL-52V	R008	401 033 0404	MT-GLAZE 180 JA 1/10W
D656	407 209 4509	ZD UDZS-TE-176.8B	R011	401 037 5004	MT-GLAZE 0.000 ZA 1/10W

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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R012	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		405 015 8704	TR 2SC2812-L6-TB
DIODE				405 015 8902	TR 2SC2812-L7-TB
D001	407 206 5509	ZD UDZS-TE-179.1B	Q5003	405 014 4509	TR 2SC2412K T146 R
. 5001	407 187 7905	ZENER DIODE UDZ9.1B-TE-17		405 014 4608	TR 2SC2412K T146 S
D002	407 206 6308	ZD UDZS-TE-175.1B		405 015 8704	TR 2SC2812-L6-TB
1 2002	407 179 1706	ZENER DIODE UDZ5.1B-TE-17		405 015 8902	TR 2SC2812-L7-TB
D003	407 149 0807	DIODE 1SS355-TE-17	Q5004	405 014 4509	TR 2SC2412K T146 R
				405 014 4608 405 015 8704	TR 2SC2412K T146 S
				405 015 8704	TR 2SC2812-L6-TB TR 2SC2812-L7-TB
610 290 0	026 ASSY,PWE	B.MAIN M4GA	Q5006	405 013 6902	TR 2SC2412K T146 R
1AA0B10C		,	Q3000	405 014 4608	TR 2SC2412K T146 S
17.07.02.00				405 015 8704	TR 2SC2812-L6-TB
•				405 015 8902	TR 2SC2812-L7-TB
TRANSISTO	R ·		Q5007	405 014 4509	TR 2SC2412K T146 R
Q1801	405 014 4509	TR 2SC2412K T146 R		405 014 4608	TR 2SC2412K T146 S
· ·	405 014 4608	TR 2SC2412K T146 S		405 015 8704	TR 2SC2812-L6-TB
	405 015 8704	TR 2SC2812-L6-TB		405 015 8902	TR 2SC2812-L7-TB
	405 015 8902	TR 2SC2812-L7-TB	Q5008	405 014 4509	TR 2SC2412K T146 R
Q1821	405 045 8705	TR 2SK536-TB		405 014 4608	TR 2SC2412K T146 S
Q1822	405 045 8705	TR 2SK536-TB		405 015 8704	TR 2SC2812-L6-TB
Q1881	405 045 8705 405 014 4509	TR 2SK536-TB TR 2SC2412K T146 R		405 015 8902	TR 2SC2812-L7-TB
Q2501	405 014 4509	TR 2SC2412K T146 K	Q5041	405 014 4509	TR 2SC2412K T146 R
	405 015 8704	TR 2SC2812-L6-TB		405 014 4608	TR 2SC2412K T146 S
	405 015 8902	TR 2SC2812-L7-TB		405 015 8704	TR 2SC2812-L6-TB
Q2851	405 014 4509	TR 2SC2412K T146 R	Q5042	405 015 8902 405 014 4509	TR 2SC2812-L7-TB TR 2SC2412K T146 R
*2002	405 014 4608	TR 2SC2412K T146 S	Q5042	405 014 4509	TR 2SC2412K T146 K
	405 015 8704	TR 2SC2812-L6-TB		405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB		405 015 8704	TR 2SC2812-L7-TB
Q2852	405 014 4509	TR 2SC2412K T146 R	Q5201	405 134 5905	TR 2SA1037AK-T146-R
	405 014 4608	TR 2SC2412K T146 S	2000	405 147 2205	TR 2SA1037AK-S-T146
	405 015 8704	TR 2SC2812-L6-TB		405 002 0308	TR 2SA1037K T146 R
	405 015 8902	TR 2SC2812-L7-TB		405 002 0407	TR 2SA1037K T146 S
Q2853	405 014 4509	TR 2SC2412K T146 R		405 002 6706	TR 2SA1179-M6-TB
	405 014 4608	TR 2SC2412K T146 S		405 002 6904	TR 2SA1179-M7-TB
	405 015 8704	TR 2SC2812-L6-TB	Q5202	405 134 5905	TR 2SA1037AK-T146-R
	405 015 8902	TR 2SC2812-L7-TB		405 147 2205	TR 2SA1037AK-S-T146
Q2854	405 134 5905	TR 2SA1037AK-T146-R		405 002 0308	TR 2SA1037K T146 R
	405 147 2205	TR 2SA1037AK-S-T146 TR 2SA1037K T146 R		405 002 0407	TR 2SA1037K T146 S
	405 002 0308 405 002 0407	TR 2SA1037K T146 R TR 2SA1037K T146 S		405 002 6706	TR 2SA1179-M6-TB
	405 002 0407	TR 2SA1037K 1146 S	25000	405 002 6904	TR 2SA1179-M7-TB
	405 002 6700	TR 2SA1179-M0-TB	Q5203	405 134 5905	TR 2SA1037AK-T146-R
Q303	405 002 0504	TR 2SC2412K T146 R		405 147 2205	TR 2SA1037AK-S-T146 TR 2SA1037K T146 R
2505	405 014 4608	TR 2SC2412K T146 S		405 002 0308 405 002 0407	TR 2SA1037K T146 K TR 2SA1037K T146 S
	405 015 8704	TR 2SC2812-L6-TB		405 002 0407	TR 2SA1179-M6-TB
	405 015 8902	TR 2SC2812-L7-TB		405 002 6700	
Q3501	405 002 8304	TR 2SA1203-Y-TE12L	Q5204	405 134 5905	TR 2SA1037AK-T146-R
Q3502	405 014 4509	TR 2SC2412K T146 R	23201	405 147 2205	TR 2SA1037AK-S-T146
_	405 014 4608	TR 2SC2412K T146 S		405 002 0308	
	405 015 8704	TR 2SC2812-L6-TB		405 002 0407	TR 2SA1037K T146 S
	405 015 8902	TR 2SC2812-L7-TB	٠	405 002 6706	TR 2SA1179-M6-TB
Q371	405 014 4509	TR 2SC2412K T146 R		405 002 6904	TR 2SA1179-M7-TB
	405 014 4608	TR 2SC2412K T146 S	Q5211	405 014 4509	TR 2SC2412K T146 R
	405 015 8704	TR 2SC2812-L6-TB	~	405 014 4608	TR 2SC2412K T146 S
	405 015 8902	TR 2SC2812-L7-TB		405 015 8704	TR 2SC2812-L6-TB
Q451	405 014 4509	TR 2SC2412K T146 R		405 015 8902	TR 2SC2812-L7-TB
•	405 014 4608	TR 2SC2412K T146 S	Q5251	405 014 4509	TR 2SC2412K T146 R
	405 015 8704	TR 2SC2812-L6-TB		405 014 4608	TR 2SC2412K T146 S
	405 015 8902	TR 2SC2812-L7-TB		405 015 8704	TR 2SC2812-L6-TB
Q5001	405 014 4509	TR 2SC2412K T146 R		405 015 8902	TR 2SC2812-L7-TB
	405 014 4608	TR 2SC2412K T146 S	Q5252	405 014 4509	TR 2SC2412K T146 R
	405 015 8704	TR 2SC2812-L6-TB		405 014 4608	TR 2SC2412K T146 S
	405 015 8902	TR 2SC2812-L7-TB		405 015 8704	
Q5002	405 014 4509	TR 2SC2412K T146 R		405 015 8902	TR 2SC2812-L7-TB
	405 014 4608	TR 2SC2412K T146 S	Q5253	405 014 4509	TR 2SC2412K T146 R
L			L		

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	405 014 4608	TR 2SC2412K T146 S	_ IC3371	410 315 5308	IC MC74ACT244DT
	405 015 8704	TR 2SC2812-L6-TB	IC3381	410 315 5308	IC MC74ACT244DT
	405 015 8902	TR 2SC2812-L7-TB	IC3391	410 315 5308	IC MC74ACT244DT
Q5296	405 134 5905	TR 2SA1037AK-T146-R	IC3392	409 330 2508	IC TC7SH04FU-(TE85L)
	405 147 2205	TR 2SA1037AK-S-T146		410 356 7606	IC SN74AHC1G04HDCKR
	405 002 0308	TR 2SA1037K T146 R	IC3501	409 472 6303	IC ET1030F0A
	405 002 0407	TR 2SA1037K T146 S	IC351	410 337 0503	IC TC74LCX14FT
	405 002 6706	TR 2SA1179-M6-TB		410 337 0602	IC HD74LVC14T
	405 002 6904	TR 2SA1179-M7-TB	IC3531	409 472 6303	IC ET1030F0A
Q6601	405 014 4509	TR 2SC2412K T146 R	IC3532	409 390 0001	IC LM7171AIMX
	405 014 4608	TR 2SC2412K T146 S	TC2561	409 486 7709 409 472 6303	IC LM7171BIMX IC ET1030F0A
	405 015 8704	TR 2SC2812-L6-TB	IC3561 IC3581	409 472 6303	
06602	405 015 8902 405 014 4509	TR 2SC2812-L7-TB TR 2SC2412K T146 R	IC3801	410 275 5707	IC TWM7000-162020
Q6602	405 014 4608	TR 2SC2412K T146 K	103001	410 275 5806	IC TWM7000-162020
	405 015 8704	TR 2SC2812-L6-TB	IC3841	410 296 5700	IC TWM7000-151020
	405 015 8704	TR 2SC2812-L7-TB	IC3861	410 296 2402	IC TMP47C101M-JV45
Q6612	405 013 0502	TR 2SC2412K T146 R	IC3862	409 344 1900	IC MN1382-O-TX
Q0012	405 014 4608	TR 2SC2412K T146 K	IC3871	409 380 6303	IC HIN232CB
	405 015 8704	TR 2SC2812-L6-TB	103071	409 273 3501	IC SP232ACT
	405 015 8902	TR 2SC2812-L7-TB	IC401	409 419 2603	IC CXA2111R
07281	405 013 0502	TR 2SC2412K T146 R	IC411	409 330 2508	IC TC7SH04FU-(TE85L)
Q7201	405 014 4608	TR 2SC2412K T146 S	10111	410 356 7606	IC SN74AHC1G04HDCKR
	405 015 8704	TR 2SC2812-L6-TB	IC431	409 326 3007	IC M62358FP
	405 015 8902	TR 2SC2812-L7-TB	IC451	409 398 1901	IC L88MS05TL-TL
Q851	405 045 8705	TR 2SK536-TB	IC471	409 460 8302	IC CXD3503R
		11. 251330 12	IC472	409 398 1901	IC L88MS05TL-TL
INTEGRATE			IC5001	409 051 2900	IC TC4053BF(EL)
IC1501	409 419 3709	IC MC10H351ML1	IC501	409 476 8808	IC CXA3512R
IC1801	409 330 2508	IC TC7SH04FU-(TE85L)	IC5101	409 478 2507	IC SAA7114H
	410 356 7606	IC SN74AHC1G04HDCKR	IC5201	409 407 7900	IC EL4332CS
IC1802	410 381 4403	IC TC7W32FU(TE12L)	IC5251	409 461 7304	IC AD8057ART
IC1803	410 346 8804	IC TC74LCX574FT	IC5252	409 461 7304	IC AD8057ART
IC1804	410 346 8804	IC TC74LCX574FT	IC5253	409 461 7304	IC AD8057ART
IC1806	410 346 8804	IC TC74LCX574FT	IC5281	409 407 7900	IC EL4332CS
IC1807	410 346 8804	IC TC74LCX574FT	IC5282	409 400 7105	IC TC7W53FU-(TE12L)
IC1808	410 362 6501	IC TC74LCX541FT	IC531	409 476 8808	IC CXA3512R
IC1809	410 362 6501	IC TC74LCX541FT	IC561	409 476 8808	IC CXA3512R
IC1831	409 481 8602	IC LM76CHMX-5	IC6101	410 386 9205	IC LC24193AT-TH5
IC1851	409 486 6108	IC M51206FP	IC6102	409 344 1900	IC MN1382-Q-TX
IC1951	409 461 8202	IC ER-ICS502MT	IC6601	409 481 8503	IC AD8400AR1
IC1961	409 428 7101	IC AV9155C	IC6901	410 386 4804	IC EPM3128ATC100-10
IC1991	409 487 5704 410 388 7001	IC TC7SZ125FU	IC7221	410 337 0503	IC TC74LCX14FT
IC202		IC AD9884AKS-100		410 337 0602	IC HD74LVC14T
IC2200	410 308 6404 409 461 7304	IC MB40988PFQ-G-MSBND IC AD8057ART	IC7241	409 461 7304	IC AD8057ART
IC2211 IC2221	409 461 7304		IC7251	409 461 7304	
IC2221	409 461 7304	IC AD8057ART	IC7261	409 461 7304	
IC231	409 416 6406	IC BA033FP-E2	IC801	410 376 7808	
IC251	409 416 6406	IC BA033FP-E2	IC806A	410 354 3808	
IC2612	409 461 7700	IC PQ2TZ15	IC811	and the second s	IC IDT71V016S15PHTR
IC2621	409 416 6406	IC BA033FP-E2	IC851	410 311 5708	
IC2621	409 416 6406	IC BA033FP-E2		410 315 5506	
IC2631	409 124 5708	IC L78M09T-TR		410 356 7507	
IC2642	409 398 1901	IC L88MS05TL-TL	IC861	410 325 4605	IC TC74LCX244FT
IC2642	409 398 1901	IC L88MS05TL-TL	CAPACITOR		
IC2881	410 378 7103	IC PIC12C508A-04/SM A	C1501	403 164 0204	CERAMIC 0.1U Z 25V
IC2882	410 343 7008	IC SN74AHCT1G14DBVR	C1502	403 322 7809	
IC301	409 478 2408	IC PW164-10RK	C1504	403 322 7809	
IC301	409 339 3605	IC 24LC16BT/SN-T	C1801	403 162 4709	ELECT 10U M 16V
IC311	409 480 1307	IC PST573IM	C1802	403 164 0204	
IC312	409 350 2908	IC TC7W126FU-(TE12L)	C1831	403 164 0204	CERAMIC 0.1U Z 25V
IC321	409 400 7105	IC TC7W53FU-(TE12L)	C1851	403 283 6309	
IC3301	409 478 1302	IC LC24049A-TA7	C1852	403 283 6309	
IC3302	409 416 6406	IC BA033FP-E2	C1853	403 283 6309	
IC3321	410 325 4605	IC TC74LCX244FT	C1951	403 164 0204	
IC3331	410 315 5308	IC MC74ACT244DT	C1961	403 164 0204	
. 100001	110 313 3300				

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Ref. No.	Part No.	Description		Ref. No.	Part No.	Description	
C1962	403 322 7809	ELECT 220U		C2635	403 229 3508	ELECT 100U N	
C1963	403 164 0204	CERAMIC 0.1U		C2636	403 229 3508	ELECT 100U N	1
C1964	403 155 4204	CERAMIC 15P		C2637	403 283 6309	CERAMIC 1U 2	
C1965	403 164 0204	CERAMIC 0.1U		.C2638	403 322 7809	ELECT 220U M CERAMIC 0.1U Z	
C1966 C1971	403 164 0204 403 229 3508	CERAMIC 0.1U ELECT 100U		C2639 C2654	403 164 0204 403 322 7809	CERAMIC 0.1U Z	
C1971 C1972	403 229 3508	ELECT 1000		C2654 C2656	403 164 0204	CERAMIC 0.1U Z	
C1973	403 322 7809	ELECT 220U		C2657	403 229 3508	ELECT 100U N	
C1991	403 164 0204	CERAMIC 0.1U		C2658	403 229 3508	ELECT 100U N	
C2201	403 164 0204	CERAMIC 0.1U		C2659	403 283 6309	CERAMIC 1U 2	10V
C2202	403 208 1402	TA-SOLID 1U	M 25V	C2851	403 164 0204	CERAMIC 0.1U 2	25V
C2203	403 164 0204	CERAMIC 0.1U		C2852	403 164 0204	CERAMIC 0.1U Z	L L
C2204	403 164 0204	CERAMIC 0.1U		C2881	403 139 7108	CERAMIC 12P 3	
C2206	403 322 7809	ELECT 220U		C2882	403 139 7108	CERAMIC 12P 3	
C2207	403 164 0204	CERAMIC 0.1U CERAMIC 10P		C2891 C2892	403 205 2808 403 164 0204	CERAMIC 0.047U F	1
C2211 C2212	403 233 3808 403 164 0204	CERAMIC 10P CERAMIC 0.1U		C301	403 164 0204	ELECT 10U M	I
C2221	403 233 3808	CERAMIC 10P		C302	403 164 0204	CERAMIC 0.1U 2	
C2222	403 164 0204	CERAMIC 0.1U		C303	403 149 9208	CERAMIC 0.01U 2	
C2231	403 233 3808	CERAMIC 10P	C 50V	C308	403 149 9208	CERAMIC 0.01U 2	50V
C2232	403 164 0204	CERAMIC 0.1U	Z 25V	C309	403 164 0204	CERAMIC 0.1U 2	25V
C231	403 164 0204	CERAMIC 0.1U		C311	403 322 7809	ELECT 220U N	
C232	403 175 4109	ELECT 22U		C312	403 164 0204	CERAMIC 0.1U 2	
C233	403 164 0204	CERAMIC 0.1U		C313	403 322 7809	ELECT 220U M	
C234	403 162 4709	ELECT 10U CERAMIC 0.1U		C314 C315	403 164 0204 403 164 0204	CERAMIC 0.1U 2 CERAMIC 0.1U 2	
C235 C236	403 164 0204 403 298 9609	CERAMIC 0.1U CERAMIC 0.1U		C315	403 283 6309	CERAMIC 0.10 2	
C250	403 325 3303	CERAMIC 0.10		C3301	403 322 7809	ELECT 220U M	
C238	403 164 0204	CERAMIC 0.1U		C3302	403 322 7809	ELECT 220U M	
C239	403 162 4006	ELECT 22U	M 6.3V	C3303	403 164 0204	CERAMIC 0.1U 2	25V
C241	403 215 2201	CERAMIC 0.01U	K 50V	C3305	403 164 0204	CERAMIC 0.1U 2	25V
C242	403 298 9609	CERAMIC 0.1U		C3306	403 322 7809	ELECT 220U M	
	403 325 3303	CERAMIC 0.1U		C3307	403 164 0204	CERAMIC 0.1U 2	
C243	403 298 9609	CERAMIC 0.1U		C3331 C3371	403 164 0204 403 164 0204	CERAMIC 0.1U 2 CERAMIC 0.1U 2	
C251	403 325 3303 403 157 3809	CERAMIC 0.1U CERAMIC 120P		C3371	403 164 0204	CERAMIC 0.10 2	
C251	403 164 0204	CERAMIC 0.1U		C3391	403 164 0204	CERAMIC 0.1U 2	
C253	403 164 0204	CERAMIC 0.1U		C3501	403 162 4709	ELECT 10U M	
C254	403 164 0204	CERAMIC 0.1U	Z 25V	C3502	403 322 7809	ELECT 220U M	1 6.3V
C2561	403 341 8801	ELECT 10U	M 25V	C3503	403 164 0204	CERAMIC 0.1U 2	25V
C2562	403 164 0204	CERAMIC 0.1U		C3504	403 164 0204	CERAMIC 0.1U 2	
C2571	403 341 8801	ELECT 10U		C3506	403 229 3508	ELECT 100U M	
C2572	403 164 0204	CERAMIC 0.1U		C3507	403 164 0204	CERAMIC 0.1U 2	
C2581	403 341 8801 403 164 0204	ELECT 10U		C351	403 164 0204 403 322 7809	CERAMIC 0.1U 2 ELECT 220U M	
C2582 C2601	403 164 0204	CERAMIC 0.1U CERAMIC 0.1U		C3532 C3533	403 164 0204	CERAMIC 0.1U 2	
C2602	403 322 7809	ELECT 220U		C3534	403 164 0204	CERAMIC 0.10 2	
C2603	403 164 0204	CERAMIC 0.1U		C3536	403 229 3508	ELECT 100U M	
C2606	403 229 3508	ELECT 100U		C3537	403 164 0204	CERAMIC 0.1U 2	
C2611	403 164 0204	CERAMIC 0.1U	Z 25V	C3541	403 157 3601	CERAMIC 100P 3	50V
C2612	403 164 0204	CERAMIC 0.1U		C3561	403 164 0204	CERAMIC 0.1U 2	
C2613	403 164 0204	CERAMIC 0.1U		C3562	403 322 7809	ELECT 220U M	
C2614	403 322 7809	ELECT 220U		C3563	403 164 0204	CERAMIC 0.1U 2	
C2615	403 164 0204	CERAMIC 0.1U		C3564	403 164 0204	CERAMIC 0.1U 2	
C2616 C2618	403 229 3508 403 229 3508	ELECT 100U ELECT 100U		C3566 C3567	403 229 3508 403 164 0204	ELECT 100U N	
C2618 C2621	403 229 3508	CERAMIC 0.1U		C3567	403 164 0204	CERAMIC 0.10 2	
C2622	403 322 7809	ELECT 220U		C3581	403 157 3601	CERAMIC 100P 3	
C2623	403 164 0204	CERAMIC 0.1U		C3582	403 164 0204	CERAMIC 0.1U 2	
C2626	403 229 3508	ELECT 100U		C3583	403 229 3508	ELECT 100U M	1 16V
C2627	403 164 0204	CERAMIC 0.1U		C3584	403 149 9208	CERAMIC 0.01U 2	·
C2628	403 322 7809	ELECT 220U		C3802	403 283 6309	CERAMIC 1U 2	
C2629	403 164 0204	CERAMIC 0.1U		C3841	403 283 6309	CERAMIC 1U 2	
C2630	403 229 3508	ELECT 100U		C3842	403 283 6309 403 283 6309	CERAMIC 1U 2 CERAMIC 1U 2	
C2631 C2632	403 164 0204 403 229 3508	CERAMIC 0.1U ELECT 100U		C3844 C3861	403 283 6309	CERAMIC 10 2	
C2632	403 229 3308	CERAMIC 0.1U		C3864	403 162 6208	ELECT 1U I	
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Ref. No.	Part No.	Description	1		Ref. No.	Part No.	Description
C3867	403 283 6309	CERAMIC	1U Z	10V	C5101	403 139 7306	CERAMIC 18P J 50V
C3871	403 283 6309	CERAMIC	1U Z	10V	C5102	403 139 7306	CERAMIC 18P J 50V
C3881	403 162 6208	ELECT	1U M	50V	C5104	403 205 2808	CERAMIC 0.047U K 25V
C3882	403 162 6208	ELECT	1U M	50V	C5106	403 205 2808	CERAMIC 0.047U K 25V
C3883	403 162 6208	ELECT	1U M	50V	C5107	403 205 2808	CERAMIC 0.047U K 25V
C3884	403 162 6208	ELECT	1U M	50V	C5108	403 205 2808	CERAMIC 0.047U K 25V
C401	403 164 0204	CERAMIC	0.1U Z	25V	C5109	403 205 2808	CERAMIC 0.047U K 25V
C402	403 149 9208	CERAMIC	0.01U Z	50V	C511	403 113 3805	CERAMIC 1000P K 50V
C403	403 149 9208	CERAMIC	0.01U Z	50V	C5111	403 229 3508	ELECT 100U M 16V
C404	403 149 9208	CERAMIC	0.01U Z	50V	C5112	403 164 0204	CERAMIC 0.1U Z 25V
C405	403 322 7809	ELECT	220U M	6.3V	C5113	403 229 3508	ELECT 100U M 16V
C406	403 164 0204	CERAMIC	0.1U Z	25V	C5114	403 164 0204	CERAMIC 0.1U Z 25V
C407 C408	403 322 7809 403 164 0204	ELECT CERAMIC	220U M 0.1U Z	6.3V 25V	C5116 C5117	403 164 0204 403 164 0204	CERAMIC 0.1U Z 25V CERAMIC 0.1U Z 25V
C408	403 164 0204	CERAMIC	0.10 Z	25V 25V	C5117	403 164 0204	CERAMIC 0.10 Z 25V
C411	403 149 9208	CERAMIC	0.01U Z	50V	C5119	403 164 0204	CERAMIC 0.1U Z 25V
C412	403 149 9208	CERAMIC	0.01U Z	50V	C514	403 164 0204	CERAMIC 0.1U Z 25V
C413	403 149 9208	CERAMIC	0.01U Z	50V	C516	403 229 3508	ELECT 100U M 16V
C414	403 149 9208	CERAMIC	0.01U Z	50V	C517	403 164 0204	CERAMIC 0.1U Z 25V
C415	403 149 9208	CERAMIC	0.01U Z	50V	C519	403 164 0204	CERAMIC 0.1U Z 25V
C416	403 149 9208	CERAMIC	0.01U Z	50V	C5201	403 164 0204	CERAMIC 0.1U Z 25V
C417	403 164 0204	CERAMIC	0.1U Z	25V	C5202	403 322 7809	ELECT 220U M 6.3V
C431	403 229 3508	ELECT	100U M	16V	C521	403 229 3508	ELECT 100U M 16V
C432	403 149 9208	CERAMIC	0.01U Z	50V	C5212	403 283 6309	CERAMIC 1U Z 10V
C433	403 164 0204	CERAMIC	0.1U Z	25V	C5213	403 149 9208	CERAMIC 0.01U Z 50V
C434	403 175 4505 403 298 9609	ELECT	47U M	6.3V	C5214	403 283 6309 403 149 9208	CERAMIC 1U Z 10V
C435	403 298 9609	CERAMIC CERAMIC	0.1U K 0.1U K	16V 16V	C5216 C5217	403 149 9208	CERAMIC 0.01U Z 50V CERAMIC 1U Z 10V
C436	403 298 9609	CERAMIC	0.10 K	16V	C5217	403 162 4006	ELECT 22U M 6.3V
C450	403 325 3303	CERAMIC	0.1U K	16V	C5251	403 164 0204	CERAMIC 0.1U Z 25V
C437	403 298 9609	CERAMIC	0.1U K	16V	C5252	403 322 7809	ELECT 220U M 6.3V
	403 325 3303	CERAMIC	0.1U K	16V	C5253	403 157 1904	CERAMIC 10P D 50V
C450	403 229 3508	ELECT	100U M	16V	C5255	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C451	403 229 3508	ELECT	100U M	16V	C5257	403 322 7809	ELECT 220U M 6.3V
C452	403 322 7809	ELECT	220U M	6.3V	C5258	403 164 0204	CERAMIC 0.1U Z 25V
C453	403 283 6309	CERAMIC	1U Z	10V	C5259	403 215 2904	CERAMIC 0.022U K 25V
C454	403 164 0204	CERAMIC	0.1U Z	25V	C5263	403 157 1904	CERAMIC 10P D 50V
C470	403 322 7809	ELECT	220U M	6.3V	C5265	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C471	403 322 7809	ELECT	220U M	6.3V	C5269	403 215 2904	CERAMIC 0.022U K 25V
C472	403 164 0204	CERAMIC	0.1U Z	25V	C5273	403 157 1904	CERAMIC 10P D 50V
C473 C474	403 162 4709 403 164 0204	ELECT CERAMIC	10U M	16V 25V	C5275 C5279	401 105 7909 403 215 2904	MT-GLAZE 0.000 ZA 1/16W CERAMIC 0.022U K 25V
C474	403 283 6309	CERAMIC	1U Z	10V	C5279	403 213 2304	CERAMIC 0.0220 K 25V
C476	403 341 3905	POS-SOLID	100U M		C5282	403 149 9208	CERAMIC 0.01U Z 50V
C481	403 157 2901	CERAMIC	47P J	50V	C5283	403 164 0204	CERAMIC 0.1U Z 25V
C483	403 164 0204	CERAMIC	0.1U Z	25V	C5284	403 164 0204	CERAMIC 0.1U Z 25V
C484	403 164 0204	CERAMIC	0.1U Z	25V	C5287	403 157 4202	CERAMIC 220P J 50V
C5001	403 205 7803	TA-SOLID	2.2U M	16V	C5288	403 162 4006	ELECT 22U M 6.3V
C5002	403 205 7803	TA-SOLID	2.2U M	16V	C5289	403 322 7809	ELECT 220U M 6.3V
C5003	403 205 7803	TA-SOLID	2.2U M	16V	C531	403 164 0204	CERAMIC 0.1U Z 25V
	403 205 7803	TA-SOLID	2.2U M	16V	C532	403 162 4709	ELECT 10U M 16V
C5006	403 205 7803	TA-SOLID	2.2U M	16V	C533	403 164 0204	CERAMIC 0.1U Z 25V
C5007	403 343 8809	CERAMIC	0.47U Z	16V	C534	403 164 0204	CERAMIC 0.1U Z 25V
C5008	403 343 8809 403 162 4709	CERAMIC	0.47U Z 10U M	16V	C536	403 157 3106	CERAMIC 56P J 50V
C5009 C501	403 162 4709	ELECT CERAMIC	0.1U Z	16V 25V	C537 C539	403 155 1609 403 215 0900	CERAMIC 33P J 50V CERAMIC 390P J 50V
C5010	403 322 7809	ELECT	220U M	⊿5V 6.3V	C539	403 213 0900	CERAMIC 390P J 50V CERAMIC 1000P K 50V
C5010	403 343 8809	CERAMIC	0.47U Z	16V	C544	403 113 3803	CERAMIC 1000F K 50V
C5011	403 162 4709	ELECT	10U M	16V	C544	403 229 3508	ELECT 100U M 16V
C5013	403 162 4709	ELECT	10U M	16V	C547	403 164 0204	CERAMIC 0.1U Z 25V
C5014	403 322 7809	ELECT	220U M	6.3V	C549	403 164 0204	CERAMIC 0.1U Z 25V
C502	403 162 4709	ELECT	10U M	16V	C551	403 229 3508	ELECT 100U M 16V
C503	403 164 0204	CERAMIC	0.1U Z	25V	C561	403 164 0204	CERAMIC 0.1U Z 25V
C504	403 164 0204	CERAMIC	0.1U Z	25V	C562	403 162 4709	ELECT 10U M 16V
C506	403 157 3106	CERAMIC	56P J	50V	C563	403 164 0204	CERAMIC 0.1U Z 25V
C507	403 155 1609	CERAMIC	33P J	50V	C564	403 164 0204	CERAMIC 0.1U Z 25V
C509	403 215 0900	CERAMIC	390P J	50V	C566	403 157 3106	CERAMIC 56P J 50V

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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C567	403 155 1609	CERAMIC 33P J 50V		645 024 7477	R-NETWORK 0X4 1/16W
C569	403 215 0900	CERAMIC 390P J 50V	RB561	645 037 0656	R-NETWORK 0X4 0.063W
C571	403 113 3805	CERAMIC 1000P K 50V	1.2502	645 024 7477	R-NETWORK 0X4 1/16W
C574	403 164 0204	CERAMIC 0.1U Z 25V	RB562	645 037 0656	R-NETWORK 0X4 0.063W
C576	403 229 3508	ELECT 100U M 16V		645 024 7477	R-NETWORK 0X4 1/16W
C577	403 164 0204	CERAMIC 0.1U Z 25V	RB6101	645 021 0358	R-NETWORK 100X4 0.063W
C579	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C581	403 229 3508	ELECT 100U M 16V	RB6102	645 021 0358	R-NETWORK 100X4 0.063W
C6101	403 283 6309	CERAMIC 1U Z 10V		645 031 3325	R-NETWORK 100X4 1/16W
C6102	403 164 0204	CERAMIC 0.1U Z 25V	RB6103	645 021 0358	R-NETWORK 100X4 0.063W
C6103	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C6104	403 164 0204	CERAMIC 0.1U Z 25V	RB6104	645 021 0358	R-NETWORK 100X4 0.063W
C6105	403 229 3508	ELECT 100U M 16V		645 031 3325	R-NETWORK 100X4 1/16W
C6106	403 164 0204	CERAMIC 0.1U Z 25V	RB6106	645 021 0358	R-NETWORK 100X4 0.063W
C6112	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C6113	403 164 0204	CERAMIC 0.1U Z 25V	RB6107	645 021 0358	R-NETWORK 100X4 0.063W
C6114	403 164 0204	CERAMIC 0.1U Z 25V	DDC100	645 031 3325	R-NETWORK 100X4 1/16W
C6116	403 164 0204 403 164 0204	CERAMIC 0.1U Z 25V CERAMIC 0.1U Z 25V	RB6108	645 021 0358 645 031 3325	R-NETWORK 100X4 0.063W R-NETWORK 100X4 1/16W
C6601 C6611	403 164 0204	CERAMIC 0.1U Z 25V ELECT 100U M 16V	RB6109	645 021 0358	R-NETWORK 100X4 1/10W
C6612	403 229 3508	ELECT 1000 M 16V	KB0103	645 031 3325	R-NETWORK 100X4 1/16W
C6613	403 229 3508	ELECT 1000 M 16V	RB6111	645 021 0358	R-NETWORK 100X4 0.063W
C6901	403 164 0204	CERAMIC 0.1U Z 25V	INDUITE	645 031 3325	R-NETWORK 100X4 1/16W
C6902	403 164 0204	CERAMIC 0.1U Z 25V	RB6112	645 021 0358	R-NETWORK 100X4 0.063W
C6903	403 164 0204	CERAMIC 0.1U Z 25V	1.202	645 031 3325	R-NETWORK 100X4 1/16W
C6904	403 164 0204	CERAMIC 0.1U Z 25V	RB6113	645 021 0358	R-NETWORK 100X4 0.063W
C6906	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C6907	403 164 0204	CERAMIC 0.1U Z 25V	RB6114	645 021 0358	R-NETWORK 100X4 0.063W
C6908	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C6911	403 229 3508	ELECT 100U M 16V	RB6116	645 021 0358	R-NETWORK 100X4 0.063W
C6912	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C7221	403 157 3809	CERAMIC 120P J 50V	RB6117	645 021 0358	R-NETWORK 100X4 0.063W
C7222	403 149 9208	CERAMIC 0.01U Z 50V		645 031 3325	R-NETWORK 100X4 1/16W
C7225	403 157 3809	CERAMIC 120P J 50V	RB6118	645 021 0358	R-NETWORK 100X4 0.063W
C7226	403 157 3809	CERAMIC 120P J 50V		645 031 3325	R-NETWORK 100X4 1/16W
C7241	403 157 1904	CERAMIC 10P D 50V	RB6119	645 021 0358	R-NETWORK 100X4 0.063W
.C7242TM	403 283 6309	CERAMIC 1U Z 10V	DDC101	645 031 3325 645 021 0358	R-NETWORK 100X4 1/16W
C7251	403 157 1904 403 157 1904	CERAMIC 10P D 50V CERAMIC 10P D 50V	RB6121	645 021 0358	R-NETWORK 100X4 0.063W R-NETWORK 100X4 1/16W
C7261 C7271	403 164 0204	CERAMIC 10P D 50V CERAMIC 0.1U Z 25V	RB6122	645 021 0358	R-NETWORK 100X4 1/16W
C7272	403 322 7809	ELECT 220U M 6.3V	KBU122	645 031 3325	R-NETWORK 100X4 0.005W
C7273	403 322 7809	ELECT 2200 M 6.3V	RB6123	645 021 0358	R-NETWORK 100X4 0.063W
C7274	403 164 0204	CERAMIC 0.1U Z 25V	100123	645 031 3325	R-NETWORK 100X4 1/16W
C7274	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	RB6124	645 021 0358	R-NETWORK 100X4 0.063W
C806	403 322 7809	ELECT 220U M 6.3V		645 031 3325	R-NETWORK 100X4 1/16W
C807	403 164 0204	CERAMIC 0.1U Z 25V	RB6126		R-NETWORK 100X4 0.063W
C811	403 175 3300	ELECT 47U M 16V		645 031 3325	R-NETWORK 100X4 1/16W
C812	403 164 0204	CERAMIC 0.1U Z 25V	RB6127	645 021 0358	R-NETWORK 100X4 0.063W
C851	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C861	403 164 0204	CERAMIC 0.1U Z 25V	RB6128	645 021 0358	R-NETWORK 100X4 0.063W
DECICTOR				645 031 3325	R-NETWORK 100X4 1/16W
RESISTOR	64E 020 7022	R-NETWORK 10KX4 0.063W	RB6129	645 021 0358	R-NETWORK 100X4 0.063W
RB1801	645 020 7822 645 025 5380	R-NETWORK 10KX4 0.063W		645 031 3325	
RB1802	645 020 7822	R-NETWORK 10KX4 0.063W	RB851	645 020 7822	
KD1002	645 025 5380	R-NETWORK 10KX4 0.003W		645 025 5380	
RB3841	645 020 7822	R-NETWORK 10KX4 0.063W	RB852	645 020 7822	
1.25041	645 025 5380	R-NETWORK 10KX4 1/16W	m	645 025 5380	
RB3861	645 020 7822	R-NETWORK 10KX4 0.063W	R1506	401 105 7909	
	645 025 5380	R-NETWORK 10KX4 1/16W	R1507	401 105 7909	
RB501	645 037 0656	R-NETWORK 0X4 0.063W	R1508	401 105 7909	
	645 024 7477		R1509	401 105 7909	
RB502	645 037 0656	R-NETWORK 0X4 0.063W	R1511 R1512	401 105 4007 401 105 4007	
	645 024 7477	R-NETWORK 0X4 1/16W	R1512 R1513	401 105 4007	
RB531	645 037 0656	R-NETWORK 0X4 0.063W	R1513 R1514	401 105 4007	MT-GLAZE 330 JA 1/16W
	645 024 7477	R-NETWORK 0X4 1/16W	R1514 R1516	401 105 7909	
RB532	645 037 0656	R-NETWORK 0X4 0.063W	R1517	401 105 7909	
			111011	102 203 7505	0.000 211 1/1011

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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1518	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2238	401 113 4402	MT-GLAZE 75 JA 1/16W
R1522	401 105 4007	MT-GLAZE 330 JA 1/16W	R241	401 105 0405	MT-GLAZE 100 JA 1/16W
R1523	401 105 4007	MT-GLAZE 330 JA 1/16W	R242 R244	401 105 0405 401 105 7909	MT-GLAZE 100 JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R1801 R1802	401 105 2805 401 105 2805	MT-GLAZE 2.2K JA 1/16W MT-GLAZE 2.2K JA 1/16W	R244 R246	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1803	401 105 2009	MT-GLAZE 0.000 ZA 1/16W	R248	401 105 0603	MT-GLAZE 10K JA 1/16W
R1807	401 105 0603	MT-GLAZE 10K JA 1/16W	R249	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1808	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2516	401 105 5400	MT-GLAZE 47K JA 1/16W
R1809	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2517	401 105 4205	MT-GLAZE 33K JA 1/16W
R1810	401 038 5805	MT-GLAZE 430 JA 1/10W	R2518	401 105 0603	MT-GLAZE 10K JA 1/16W
R1811 R1823	401 105 7909 401 105 0603	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 10K JA 1/16W	R2519 R2533	401 105 5400 401 105 5400	MT-GLAZE 47K JA 1/16W MT-GLAZE 47K JA 1/16W
R1826	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R2537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1827	401 105 2904	MT-GLAZE 22K JA 1/16W	R254	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1828	401 105 8203	MT-GLAZE 68K JA 1/16W	R2541	401 105 0306	MT-GLAZE 10 JA 1/16W
R1833	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2547	401 105 0306	MT-GLAZE 10 JA 1/16W
R1836	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R255	401 105 0405	MT-GLAZE 100 JA 1/16W
R1839	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R256 R2561	401 105 0405 401 105 1501	MT-GLAZE 100 JA 1/16W MT-GLAZE 1.5K JA 1/16W
R1841 R1842	401 105 0603 401 105 0603	MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W	R2562	401 105 1301	MT-GLAZE 1.3K 0A 1/10W MT-GLAZE 820 JA 1/16W
R1843	401 105 0603	MT-GLAZE 10K JA 1/16W	R2571	401 105 7505	MT-GLAZE 1.5K JA 1/16W
R1844	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2572	401 105 7305	MT-GLAZE 820 JA 1/16W
R1848	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R258	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1851	401 105 0603	MT-GLAZE 10K JA 1/16W	R2581	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1852	401 105 1105	MT-GLAZE 12K JA 1/16W	R2582	401 105 7305	MT-GLAZE 820 JA 1/16W
R1853	401 105 0405	MT-GLAZE 100 JA 1/16W	R2603 R2604	401 102 7506 401 102 7506	MT-GLAZE 22 JA 1W MT-GLAZE 22 JA 1W
R1854 R1856	401 105 2508 401 105 0306	MT-GLAZE 20K JA 1/16W MT-GLAZE 10 JA 1/16W	R2604 R2606	401 102 7506	MT-GLAZE 22 JA 1W
R1857	401 105 0306	MT-GLAZE 10 JA 1/16W	R2607	401 102 7506	MT-GLAZE 22 JA 1W
R1858	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2608	401 102 7506	MT-GLAZE 22 JA 1W
R1862	401 105 0603	MT-GLAZE 10K JA 1/16W	R2611	401 105 0405	MT-GLAZE 100 JA 1/16W
R1864	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2612	401 102 7605	MT-GLAZE 27 JA 1W
R1868	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R2613 R2616	401 102 7605 401 102 7605	MT-GLAZE 27 JA 1W MT-GLAZE 27 JA 1W
R1879 R1884	401 105 7909 401 105 0603	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 10K JA 1/16W	R2617	401 102 7605	MT-GLAZE 27 JA 1W
R1952	401 105 0603	MT-GLAZE 10K JA 1/16W	R2618	401 102 7605	MT-GLAZE 27 JA 1W
R1953	401 105 0603	MT-GLAZE 10K JA 1/16W	R2633	401 198 7909	MT-GLAZE 47 JA 1W
R1955	401 105 0405	MT-GLAZE 100 JA 1/16W	R2851	401 105 4502	MT-GLAZE 390 JA 1/16W
R1957	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2852	401 105 4502	MT-GLAZE 390 JA 1/16W
R1960 R1962	401 105 6605 401 105 7909	MT-GLAZE 6.8K JA 1/16W MT-GLAZE 0.000 ZA 1/16W	R2853 R2855	401 105 5301 401 105 0504	MT-GLAZE 4.7K JA 1/16W MT-GLAZE 1K JA 1/16W
R1962 R1963	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2857	401 105 0504	MT-GLAZE 1K JA 1/16W
R1964	401 105 0603	MT-GLAZE 10K JA 1/16W	R2859	401 105 0504	MT-GLAZE 1K JA 1/16W
R1967	401 105 0603	MT-GLAZE 10K JA 1/16W	R2861	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1969	401 105 0603	MT-GLAZE 10K JA 1/16W	R2862	401 105 5301	MT-GLAZE 4.7K JA 1/16W
⚠ R1971	402 080 7007	FUSIBLE RES 1.8 JH 1/4W	R2864	401 105 0504	MT-GLAZE 1K JA 1/16W
⚠ R1972 ⚠ R1973	402 080 7007 402 083 2207	FUSIBLE RES 1.8 JH 1/4W FUSIBLE RES 4.7 JH 1/4W	R2870 R2871	401 105 2904 401 105 7909	MT-GLAZE 22K JA 1/16W MT-GLAZE 0.000 ZA 1/16W
△ R1973	402 083 2207	FUSIBLE RES 4.7 JH 1/4W	R2872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
△ R1975	402 080 7007	FUSIBLE RES 1.8 JH 1/4W	R2873	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1992	401 105 0306	MT-GLAZE 10 JA 1/16W	R2874	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1994	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2875	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1995	401 105 5103	MT-GLAZE 47 JA 1/16W	R2876	401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
R1996 R218	401 105 7909 401 105 0405	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 100 JA 1/16W	R2877 R2878	401 105 7909 401 105 0405	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 100 JA 1/16W
R218 R2201	401 103 0403	MT-GLAZE 8.2K FA 1/16W	R2879	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2202	401 105 0603	MT-GLAZE 10K JA 1/16W	R2880	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2203	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R2881	401 105 0603	MT-GLAZE 10K JA 1/16W
R2207	401 105 5103	MT-GLAZE 47 JA 1/16W	R2883	401 105 0603	MT-GLAZE 10K JA 1/16W
R2212	401 105 5202	MT-GLAZE 470 JA 1/16W	R2884	401 105 0405	MT-GLAZE 100 JA 1/16W
R2213 R2222	401 105 4502 401 105 5202	MT-GLAZE 390 JA 1/16W MT-GLAZE 470 JA 1/16W	R2887 R2891	401 105 0405 401 105 0504	MT-GLAZE 100 JA 1/16W MT-GLAZE 1K JA 1/16W
R2223	401 105 5202	MT-GLAZE 470 JA 1/16W	R2892	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2232	401 105 5202	MT-GLAZE 470 JA 1/16W	R2893	401 105 0603	MT-GLAZE 10K JA 1/16W
R2233	401 105 4502	MT-GLAZE 390 JA 1/16W	R2896	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2236	401 113 4402	MT-GLAZE 75 JA 1/16W	R2897	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2237	401 113 4402	MT-GLAZE 75 JA 1/16W	R301	401 105 0603	MT-GLAZE 10K JA 1/16W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R302	401 105 0603	MT-GLAZE 10K JA 1/16W	R3378	401 105 5103	MT-GLAZE 47 JA 1/16W
R303	401 105 0405	MT-GLAZE 100 JA 1/16W	R3379	401 105 5103	MT-GLAZE 47 JA 1/16W
R304	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R338	401 105 0306	MT-GLAZE 10 JA 1/16W
R305	401 105 0603	MT-GLAZE 10K JA 1/16W	R3381	401 105 5103	MT-GLAZE 47 JA 1/16W
R307	401 105 0306	MT-GLAZE 10 JA 1/16W	R3382	401 105 0306	MT-GLAZE 10 JA 1/16W
R308	401 105 5905	MT-GLAZE 560 JA 1/16W	R3383	401 105 5103	MT-GLAZE 47 JA 1/16W
R309	401 113 5904	MT-GLAZE 1.3K JA 1/16W	R3384	401 105 0306	MT-GLAZE 10 JA 1/16W
R311 R314	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	R3386 R3387	401 105 5103 401 105 0306	MT-GLAZE 47 JA 1/16W MT-GLAZE 10 JA 1/16W
R314 R316	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3388	401 105 0306	MT-GLAZE 10 JA 1/16W
R317	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3389	401 105 0306	MT-GLAZE 10 JA 1/16W
R318	401 105 5509	MT-GLAZE 470K JA 1/16W	R339	401 105 0306	MT-GLAZE 10 JA 1/16W
R321	401 105 0603	MT-GLAZE 10K JA 1/16W	R3390	401 105 0306	MT-GLAZE 10 JA 1/16W
R324	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R3391	401 105 0306	MT-GLAZE 10 JA 1/16W
R327	401 105 0603	MT-GLAZE 10K JA 1/16W	R3392	401 105 0306	MT-GLAZE 10 JA 1/16W
R329	401 105 0603	MT-GLAZE 10K JA 1/16W	R3393	401 105 0306	MT-GLAZE 10 JA 1/16W
R3301	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	R3394	401 105 0306	MT-GLAZE 10 JA 1/16W
R3302 R3304	401 035 4108 401 105 0603	MT-GLAZE 0.000 ZA 1/8W MT-GLAZE 10K JA 1/16W	R3396 R3397	401 105 5103 401 037 5004	MT-GLAZE 47 JA 1/16W MT-GLAZE 0.000 ZA 1/10W
R3304 R3306	401 105 0603	MT-GLAZE 10K JA 1/16W	R3399	401 105 0306	MT-GLAZE 0.000 ZA 1/16W
R3307	401 105 0306	MT-GLAZE 10 JA 1/16W	R340	401 105 0603	MT-GLAZE 10K JA 1/16W
R3308	401 105 0306	MT-GLAZE 10 JA 1/16W	R3402	401 105 0603	MT-GLAZE 10K JA 1/16W
R3309	401 105 0306	MT-GLAZE 10 JA 1/16W	R3404	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3310	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R343	401 105 0603	MT-GLAZE 10K JA 1/16W
R3314	401 105 0306	MT-GLAZE 10 JA 1/16W	R346	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3315	401 105 0603	MT-GLAZE 10K JA 1/16W	R349	401 105 0603	MT-GLAZE 10K JA 1/16W
R3316	401 105 0306	MT-GLAZE 10 JA 1/16W	R350	401 105 0306	MT-GLAZE 10 JA 1/16W
R3317	401 105 0306	MT-GLAZE 10 JA 1/16W	R3501	401 105 1501 401 105 5301	MT-GLAZE 1.5K JA 1/16W MT-GLAZE 4.7K JA 1/16W
R3319 R332	401 105 0306 401 105 0603	MT-GLAZE 10 JA 1/16W MT-GLAZE 10K JA 1/16W	R3502 R3503	401 105 5301	MT-GLAZE 4.7K JA 1/16W MT-GLAZE 4.7K JA 1/16W
R3321	401 105 0306	MT-GLAZE 10K 0A 1/16W	R3504	401 105 0603	MT-GLAZE 10K JA 1/16W
R3322	401 105 0306	MT-GLAZE 10 JA 1/16W	R3506	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3323	401 105 0306	MT-GLAZE 10 JA 1/16W	R3507	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3324	401 105 0306	MT-GLAZE 10 JA 1/16W	R351	401 105 0603	MT-GLAZE 10K JA 1/16W
R3326	401 105 0306	MT-GLAZE 10 JA 1/16W	R3511	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3327	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3328	401 105 0306	MT-GLAZE 10 JA 1/16W	R3513	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3329	401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W	R3521 R3522	401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W
R3331 R3333	401 105 0308	MT-GLAZE 0.000 ZA 1/16W	R3522	401 105 0306	MT-GLAZE 10 JA 1/16W
R3334	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3524	401 105 0306	MT-GLAZE 10 JA 1/16W
R3336	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3526	401 105 0306	MT-GLAZE 10 JA 1/16W
R3337	401 105 0306	MT-GLAZE 10 JA 1/16W	R3527	401 105 0306	MT-GLAZE 10 JA 1/16W
R3339	401 105 0306	MT-GLAZE 10 JA 1/16W	R3528	401 105 0306	MT-GLAZE 10 JA 1/16W
R334	401 105 0603	MT-GLAZE 10K JA 1/16W	R3529	401 105 0306	MT-GLAZE 10 JA 1/16W
R3341	401 105 0603	MT-GLAZE 10K JA 1/16W	R353	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3342	401 105 0306	MT-GLAZE 10 JA 1/16W	R3531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3343	401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W	R3532 R3533	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
R3346 R3348	401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W	R3534	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3349	401 105 0603	MT-GLAZE 10K JA 1/16W	R3536	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R335	401 105 0306	MT-GLAZE 10 JA 1/16W	R3537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3351	401 105 5103	MT-GLAZE 47 JA 1/16W	R3538	401 105 0504	MT-GLAZE 1K JA 1/16W
R3354	401 105 5103	MT-GLAZE 47 JA 1/16W	R3539	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R336	401 105 0306	MT-GLAZE 10 JA 1/16W	R354	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3360	401 105 5103	MT-GLAZE 47 JA 1/16W	R3542	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3361	401 105 0306	MT-GLAZE 10 JA 1/16W	R3543	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3362	401 105 0306	MT-GLAZE 10 JA 1/16W	R3546	401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
R3363	401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W	R3549 R3551	401 105 7909 401 105 0306	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 10 JA 1/16W
R3364 R337	401 105 0306	MT-GLAZE 10 JA 1/16W	R3552	401 105 0306	MT-GLAZE 10 0A 1/16W
R3371	401 105 0306	MT-GLAZE 10 JA 1/16W	R3553	401 105 0306	MT-GLAZE 10 JA 1/16W
R3372	401 105 0306	MT-GLAZE 10 JA 1/16W	R3554	401 105 0306	MT-GLAZE 10 JA 1/16W
R3373	401 105 5103	MT-GLAZE 47 JA 1/16W	R3556	401 105 0306	MT-GLAZE 10 JA 1/16W
R3374	401 105 5103	MT-GLAZE 47 JA 1/16W	R3557	401 105 0306	MT-GLAZE 10 JA 1/16W
R3376	401 105 5103	MT-GLAZE 47 JA 1/16W	R3558	401 105 0306	MT-GLAZE 10 JA 1/16W
R3377	401 105 5103	MT-GLAZE 47 JA 1/16W	R3559	401 105 0306	MT-GLAZE 10 JA 1/16W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R356	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R424	401 105 0306	MT-GLAZE 10 JA 1/16W
R3561	401 105 4205	MT-GLAZE 33K JA 1/16W	R430	401 105 0405	MT-GLAZE 100 JA 1/16W
R3562	401 105 7404	MT-GLAZE 8.2K JA 1/16W	R431	401 105 0405	MT-GLAZE 100 JA 1/16W
R3563	401 105 0603	MT-GLAZE 10K JA 1/16W	R432	401 105 0405	MT-GLAZE 100 JA 1/16W
R3566	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R433	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R3567	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R434 R435	401 105 7909 401 105 7404	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 8.2K JA 1/16W
R3572 R3573	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	R435	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R3576	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R437	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R3577	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R438	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R3578	401 105 0504	MT-GLAZE 1K JA 1/16W	R439	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R3581	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R441	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R3582	401 105 0504	MT-GLAZE 1K JA 1/16W	R442	401 105 1105	MT-GLAZE 12K JA 1/16W
R3583	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	R443	401 105 1105	MT-GLAZE 12K JA 1/16W
R359	401 105 0603	MT-GLAZE 10K JA 1/16W	R444	401 105 1105	MT-GLAZE 12K JA 1/16W
R3591	401 105 0306	MT-GLAZE 10 JA 1/16W	R445	401 105 0603	MT-GLAZE 10K JA 1/16W
R3592	401 105 0306	MT-GLAZE 10 JA 1/16W	R446	401 105 0603	MT-GLAZE 10K JA 1/16W
R3593	401 105 0306	MT-GLAZE 10 JA 1/16W	R447	401 105 0603 401 105 7909	MT-GLAZE 10K JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R3594 R3596	401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W	R451 R452	401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 10K JA 1/16W
R3597	401 105 0306	MT-GLAZE 10 JA 1/16W	R453	401 105 0603	MT-GLAZE 10K JA 1/16W
R3598	401 105 0306	MT-GLAZE 10 JA 1/16W	R454	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3599	401 105 0306	MT-GLAZE 10 JA 1/16W	R461	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R361	401 105 0405	MT-GLAZE 100 JA 1/16W	R463	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R367	401 105 0603	MT-GLAZE 10K JA 1/16W	R466	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R371	401 105 0306	MT-GLAZE 10 JA 1/16W	R470	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R373	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R471	401 105 0504	MT-GLAZE 1K JA 1/16W
R3801	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R473	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3806	401 105 0405	MT-GLAZE 100 JA 1/16W	R474	401 105 0603	MT-GLAZE 10K JA 1/16W
R3811	401 105 0603	MT-GLAZE 10K JA 1/16W	R475	401 105 0603	MT-GLAZE 10K JA 1/16W
R3812	401 105 0603 401 105 0603	MT-GLAZE 10K JA 1/16W	R476 R477	401 105 7909 401 105 4502	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 390 JA 1/16W
R3813 R3814	401 105 0603	MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W	R477	401 105 4502	MT-GLAZE 1K JA 1/16W
R3814	401 105 0603	MT-GLAZE 10K JA 1/16W	R479	401 105 0504	MT-GLAZE 1K JA 1/16W
R3841	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R481	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R3842	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R484	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3851	401 105 0603	MT-GLAZE 10K JA 1/16W	R486	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3852	401 105 4205	MT-GLAZE 33K JA 1/16W	R491	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3861	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R492	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3862	401 105 0603	MT-GLAZE 10K JA 1/16W	R493	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3863	401 105 0603	MT-GLAZE 10K JA 1/16W	R494	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3864	401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	R5001 R5002	401 105 0702 401 105 0702	MT-GLAZE 100K JA 1/16W MT-GLAZE 100K JA 1/16W
R3866 R3867	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	R5002	401 105 0702	
R3871	401 105 7909		R5004	401 105 0702	
R3882	401 105 0405	MT-GLAZE 100 JA 1/16W	R5006	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R3883	401 105 0603	MT-GLAZE 10K JA 1/16W	R5007	401 105 1105	MT-GLAZE 12K JA 1/16W
R3884	401 105 0405	MT-GLAZE 100 JA 1/16W	R5008	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5009	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3891	401 105 0405	MT-GLAZE 100 JA 1/16W	R501	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R401	401 105 0603	MT-GLAZE 10K JA 1/16W	R5010	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R402	401 105 0603	MT-GLAZE 10K JA 1/16W	R5011	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R403	401 217 3202	MT-GLAZE 51K FA 1/16W	R5013	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R404	401 212 1708 401 105 0504	MT-GLAZE 24K FA 1/16W MT-GLAZE 1K JA 1/16W	R5014 R5015	401 105 2805 401 105 7909	MT-GLAZE 2.2K JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R405 R406	401 105 0504	MT-GLAZE 1K JA 1/16W MT-GLAZE 0.000 ZA 1/16W		401 105 7909	MT-GLAZE 1.5K JA 1/16W
R407	401 105 0504	MT-GLAZE 1K JA 1/16W	R5017	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R409	401 105 8203	MT-GLAZE 68K JA 1/16W	R5018	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R411	401 105 4700	MT-GLAZE 39K JA 1/16W	R502	401 105 0504	MT-GLAZE 1K JA 1/16W
R412	401 105 8104	MT-GLAZE 56K JA 1/16W	R5021	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R413	401 105 4205	MT-GLAZE 33K JA 1/16W	R5022	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R414	401 105 4205	MT-GLAZE 33K JA 1/16W	R5023	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R415	401 105 4205	MT-GLAZE 33K JA 1/16W	R5024	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R419	401 105 0306	MT-GLAZE 10 JA 1/16W	R5026	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R421	401 105 0306	MT-GLAZE 10 JA 1/16W	R5027	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R422	401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W	R5028 R5029	401 105 2805 401 105 2805	MT-GLAZE 2.2K JA 1/16W MT-GLAZE 2.2K JA 1/16W
R423	#OT TO2 0200	MI GHADE IO ON I/IOW	1 1029	-OT TOO 7000	TI OHUUD V. TV OM TATOM

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R503	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R5209	401 105 0504	MT-GLAZE 1K JA 1/16W
R5031	401 105 2803	MT-GLAZE 2.2K 0A 1/10W MT-GLAZE 470 JA 1/16W	R5205	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R5036	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5211	401 262 8504	MT-GLAZE 62 FA 1/16W
R5037	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5212	401 105 0405	MT-GLAZE 100 JA 1/16W
R504	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5041	401 105 0603	MT-GLAZE 10K JA 1/16W	R5214	401 105 0504	MT-GLAZE 1K JA 1/16W
R5043	401 105 0603	MT-GLAZE 10K JA 1/16W	R5215	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5044	401 105 0603	MT-GLAZE 10K JA 1/16W	R5216	403 157 3106	CERAMIC 56P J 50V
R5046	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R5217	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5047	401 105 0603	MT-GLAZE 10K JA 1/16W	R5218	401 105 2904	MT-GLAZE 22K JA 1/16W
R5048	401 105 2904	MT-GLAZE 22K JA 1/16W	R5219	401 105 0603	MT-GLAZE 10K JA 1/16W
R505 R506	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	R522 R5221	401 105 7909 401 262 8504	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 62 FA 1/16W
R506	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5222	401 105 0405	MT-GLAZE 100 JA 1/16W
R508	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5223	401 105 0504	MT-GLAZE 1K JA 1/16W
R509	401 105 4007	MT-GLAZE 330 JA 1/16W	R5225	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R510	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5226	403 157 3106	CERAMIC 56P J 50V
R5103	401 105 1808	MT-GLAZE 18 JA 1/16W	R5227	401 262 8504	MT-GLAZE 62 FA 1/16W
R5104	401 105 1808	MT-GLAZE 18 JA 1/16W	R5228	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5106	401 105 1808	MT-GLAZE 18 JA 1/16W	R523	401 105 1600	MT-GLAZE 15K JA 1/16W
R5107	401 105 5806	MT-GLAZE 56 JA 1/16W	R5231	401 262 8504	MT-GLAZE 62 FA 1/16W
R5108	401 105 5806	MT-GLAZE 56 JA 1/16W	R5232	401 105 0405	MT-GLAZE 100 JA 1/16W
R5109	401 105 5806	MT-GLAZE 56 JA 1/16W	R5233	401 105 0504	MT-GLAZE 1K JA 1/16W
R511	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5235	401 105 7909 403 157 3106	MT-GLAZE 0.000 ZA 1/16W CERAMIC 56P J 50V
R5110	401 105 0306 401 105 0603	MT-GLAZE 10 JA 1/16W MT-GLAZE 10K JA 1/16W	R5236 R524	401 105 1600	MT-GLAZE 15K JA 1/16W
R5113 R5114	401 105 0603	MT-GLAZE 10K JA 1/16W	R5245	401 105 6506	MT-GLAZE 13R GA 1/16W
R5114 R5115	401 105 0306	MT-GLAZE 10 JA 1/16W	R5247	401 105 6506	MT-GLAZE 680 JA 1/16W
R5116	401 105 5103	MT-GLAZE 47 JA 1/16W	R5249	401 105 6506	MT-GLAZE 680 JA 1/16W
R5117	401 105 5103	MT-GLAZE 47 JA 1/16W	R525	401 105 0603	MT-GLAZE 10K JA 1/16W
R5118	401 105 5103	MT-GLAZE 47 JA 1/16W	R5251	645 033 1725	INDUCTOR,80 OHM
R5119	401 105 5103	MT-GLAZE 47 JA 1/16W	R5252	401 113 4907	MT-GLAZE 200 JA 1/16W
R512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5253	401 105 0900	MT-GLAZE 120 JA 1/16W
R5121	401 105 5103	MT-GLAZE 47 JA 1/16W	R5255	401 105 4502	MT-GLAZE 390 JA 1/16W
R5122	401 105 5103	MT-GLAZE 47 JA 1/16W	R5256	401 105 0504	MT-GLAZE 1K JA 1/16W
R5123	401 105 5103	MT-GLAZE 47 JA 1/16W	R5257 R5259	401 105 4601 401 105 3901	MT-GLAZE 3.9K JA 1/16W MT-GLAZE 33 JA 1/16W
R5124 R5126	401 105 5103 401 105 5103	MT-GLAZE 47 JA 1/16W MT-GLAZE 47 JA 1/16W	R5259 R5259R	401 105 3901	MT-GLAZE 0.000 ZA 1/16W
R5127	401 105 5103	MT-GLAZE 47 JA 1/16W	R526	401 105 7503	MT-GLAZE 1K JA 1/16W
R5127	401 105 5103	MT-GLAZE 47 JA 1/16W	R5261	645 033 1725	INDUCTOR, 80 OHM
R5129	401 105 5103	MT-GLAZE 47 JA 1/16W	R5262	401 113 4907	MT-GLAZE 200 JA 1/16W
R5131	401 105 5103	MT-GLAZE 47 JA 1/16W	R5263	401 105 0900	MT-GLAZE 120 JA 1/16W
R5132	401 105 5103	MT-GLAZE 47 JA 1/16W	R5265	401 105 4502	MT-GLAZE 390 JA 1/16W
R5133	401 105 5103	MT-GLAZE 47 JA 1/16W	R5266	401 105 0504	MT-GLAZE 1K JA 1/16W
R5134	401 105 5103	MT-GLAZE 47 JA 1/16W	R5267	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R5136	401 105 5103	MT-GLAZE 47 JA 1/16W	R5269	401 105 3901	MT-GLAZE 33 JA 1/16W
R5137	401 105 5103	MT-GLAZE 47 JA 1/16W	R5269G	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5138	401 105 5103	MT-GLAZE 47 JA 1/16W	R527	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
R5139 R5141	401 105 5103 401 105 5103	MT-GLAZE 47 JA 1/16W MT-GLAZE 47 JA 1/16W	R5270 R5271	645 033 1725	INDUCTOR, 80 OHM
R5141	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R5271	401 113 4907	MT-GLAZE 200 JA 1/16W
R5144	401 105 5103	MT-GLAZE 47 JA 1/16W	R5273	401 105 0900	MT-GLAZE 120 JA 1/16W
R5146	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R5275	401 105 4502	MT-GLAZE 390 JA 1/16W
R515	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5276	401 105 0504	MT-GLAZE 1K JA 1/16W
R516	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5277	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R517	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5279	401 105 3901	MT-GLAZE 33 JA 1/16W
R518	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5279B	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R519	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R528	401 105 0603	MT-GLAZE 10K JA 1/16W
R520	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5280	401 105 0306	MT-GLAZE 10 JA 1/16W
R5201	401 105 0504	MT-GLAZE 1K JA 1/16W	R5281	401 113 4402 401 105 7909	MT-GLAZE 75 JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R5202 R5203	401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W	R5282 R5283V	401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 1K JA 1/16W
R5203	401 105 0504	MT-GLAZE 10 JA 1/16W MT-GLAZE 1K JA 1/16W	R5283Y	401 105 0504	MT-GLAZE 1K JA 1/16W
R5205	401 105 0304	MT-GLAZE 0.000 ZA 1/16W	R5284	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5206	401 105 0504	MT-GLAZE 1K JA 1/16W	R5285	401 105 0900	MT-GLAZE 120 JA 1/16W
R5207	401 105 0306	MT-GLAZE 10 JA 1/16W	R5286	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5208	401 105 0306	MT-GLAZE 10 JA 1/16W	R5287	401 105 0504	MT-GLAZE 1K JA 1/16W

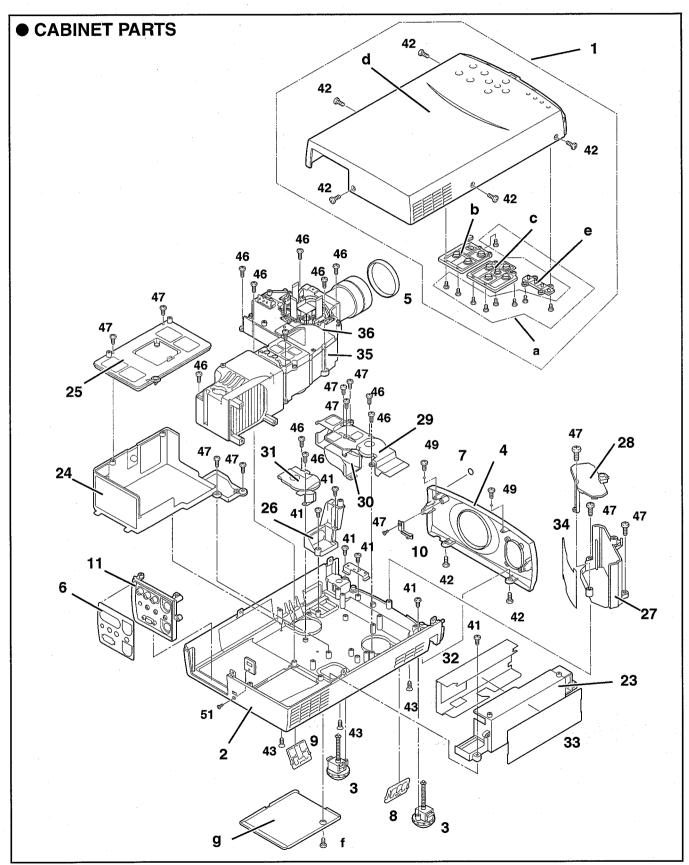
Ref. No.	Part No.	Description	n	Ref. No.	Part No.	Description
	<u> </u>	<u>. </u>		DC102	401 105 7000	MIII OLAZE 0.000 ZA 1/16W
R5288 R5289	401 113 4402 401 105 7909	MT-GLAZE MT-GLAZE	75 JA 1/16W 0.000 ZA 1/16W	R6123 R6126	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
R5289	401 103 7909	MT-GLAZE	75 JA 1/16W	R6128	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5291	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6131	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5298	401 105 0504	MT-GLAZE	1K JA 1/16W	R6135	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5299	401 262 8504	MT-GLAZE	62 FA 1/16W	R6136	401 105 5103	MT-GLAZE 47 JA 1/16W
R531	401 105 2003	MT-GLAZE	1.8K JA 1/16W	R6146	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R532	401 105 0504	MT-GLAZE	1K JA 1/16W	R6150	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R533	401 105 2805	MT-GLAZE	2.2K JA 1/16W	R6154	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R534	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6156	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R535	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6157	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R536	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6158	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R537	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6165	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R538	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6167	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R539	401 105 4007	MT-GLAZE	330 JA 1/16W	R6172	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R540	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6174	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R541	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6201 R6202	401 113 4402 401 113 4402	MT-GLAZE 75 JA 1/16W MT-GLAZE 75 JA 1/16W
R542	401 105 7909	MT-GLAZE	0.000 ZA 1/16W 0.000 ZA 1/16W	R6202 R6203	401 113 4402	MT-GLAZE 75 JA 1/16W
R545	401 105 7909 401 105 7909	MT-GLAZE MT-GLAZE	0.000 ZA 1/16W	R6204	401 113 4402	MT-GLAZE 75 JA 1/16W
R546 R547	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6206	401 113 4402	MT-GLAZE 75 JA 1/16W
R547	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6207	401 113 4402	MT-GLAZE 75 JA 1/16W
R549	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6208	401 113 4402	MT-GLAZE 75 JA 1/16W
R550	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6209	401 113 4402	MT-GLAZE 75 JA 1/16W
R551	401 105 7404	MT-GLAZE	8.2K JA 1/16W	R6211	401 113 4402	MT-GLAZE 75 JA 1/16W
R552	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6212	401 113 4402	MT-GLAZE 75 JA 1/16W
R553	401 105 1600	MT-GLAZE	15K JA 1/16W	R6213	401 113 4402	MT-GLAZE 75 JA 1/16W
R554	401 105 1600	MT-GLAZE	15K JA 1/16W	R6214	401 113 4402	MT-GLAZE 75 JA 1/16W
R555	401 105 0603	MT-GLAZE	10K JA 1/16W	R6231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R556	401 105 0504	MT-GLAZE	1K JA 1/16W	R6232	401 105 0603	MT-GLAZE 10K JA 1/16W
R557	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6236	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R558	401 105 0603	MT-GLAZE	10K JA 1/16W	R6237	401 105 0603	MT-GLAZE 10K JA 1/16W
R561	401 105 2003	MT-GLAZE	1.8K JA 1/16W	R6600	401 113 5508	MT-GLAZE 620 JA 1/16W MT-GLAZE 1K JA 1/16W
R562	401 105 0504	MT-GLAZE	1K JA 1/16W	R6602	401 105 0504 401 105 0306	MT-GLAZE 1K JA 1/16W MT-GLAZE 10 JA 1/16W
R563	401 105 2805	MT-GLAZE	2.2K JA 1/16W 0.000 ZA 1/16W	R6603 R6604	401 105 0504	MT-GLAZE 10 0A 1/10W MT-GLAZE 1K JA 1/16W
R564 R565	401 105 7909 401 105 7909	MT-GLAZE MT-GLAZE	0.000 ZA 1/16W	R6605	401 105 0504	MT-GLAZE 1K JA 1/16W
R566	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6606	401 105 0603	MT-GLAZE 10K JA 1/16W
R567	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6607	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R568	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6611	401 105 0603	MT-GLAZE 10K JA 1/16W
R569	401 105 4007	MT-GLAZE	330 JA 1/16W	R6612	401 105 0603	MT-GLAZE 10K JA 1/16W
R570	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6613	401 105 0306	MT-GLAZE 10 JA 1/16W
R571	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6615	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R572	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6617	401 105 0603	MT-GLAZE 10K JA 1/16W
R575	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6621	401 105 6001	
R576	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6622	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R577	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6650	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R578	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6655	401 105 0603	
R579	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6656	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
R580	401 105 7909 401 105 7404	MT-GLAZE MT-GLAZE	0.000 ZA 1/16W 8.2K JA 1/16W	R6658 R6902	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R581	401 105 7404	MT-GLAZE MT-GLAZE	0.000 ZA 1/16W	R6902 R6904	401 105 0504	MT-GLAZE 1K JA 1/16W
R582 R583	401 105 7909	MT-GLAZE	15K JA 1/16W	R6908	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R584	401 105 1600	MT-GLAZE	15K JA 1/16W	R6909	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R585	401 105 1603	MT-GLAZE	10K JA 1/16W	R6916	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R586	401 105 0504	MT-GLAZE	1K JA 1/16W	R6917	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R587	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6918	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R588	401 105 0603	MT-GLAZE	10K JA 1/16W	R6921	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6101	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6922	401 105 0504	MT-GLAZE 1K JA 1/16W
R6103	401 105 5202	MT-GLAZE	470 JA 1/16W	R6924	401 105 0504	MT-GLAZE 1K JA 1/16W
R6104	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6927	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6106	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6928	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6117	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6942	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6118	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6946	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6119	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6947	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6120	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6948	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6122	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6949	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Electrical Fai					1	
Ref. No.	Part No.	Description	n	Ref. No.	Part No.	Description
R6951	401 105 0603	MT-GLAZE	10K JA 1/16W	R867	401 105 0405	
R6952	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R868	401 105 0405 401 105 0405	MT-GLAZE 100 JA 1/16W MT-GLAZE 100 JA 1/16W
R6955	401 105 7909	MT-GLAZE MT-GLAZE	0.000 ZA 1/16W 0.000 ZA 1/16W	R869 R871	401 105 0405	MT-GLAZE 100 JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R6956 R6958	401 105 7909 401 105 7909	MT-GLAZE	0.000 ZA 1/16W 0.000 ZA 1/16W	R872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6961	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R873	401 105 7505	
R6963	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R874	401 105 4007	MT-GLAZE 330 JA 1/16W
R6964	401 105 7909	MT-GLAZE	0.000 ZA 1/16W			
R7221	401 105 0405	MT-GLAZE	100 JA 1/16W	VARIABLE F		VID CENT 1K C
R7222	401 105 0603	MT-GLAZE	10K JA 1/16W	VR2561 VR2571	645 025 7414 645 025 7414	VR,SEMI,1K S
R7224	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	VR2571 VR2581	645 025 7414	
R7225	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	VR3561	645 025 7411	
R7226	401 105 0405	MT-GLAZE	100 JA 1/16W	VR521		VR, SEMI, 10K S
R7228	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	VR551	645 025 7421	VR, SEMI, 10K S
R7241	401 230 2503 401 235 4403	MT-GLAZE MT-GLAZE	1K FA 1/16W 560 FA 1/16W	VR581	645 025 7421	VR,SEMI,10K S
R7242 R7243	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	VR6601	645 025 7414	VR,SEMI,1K S
R7244	401 218 4505	MT-GLAZE	2.2K FA 1/16W	COIL		
R7246	401 105 1907	MT-GLAZE	180 JA 1/16W	L1961	645 020 1776	INDUCTOR, 3.3U M
R7247	401 218 4406	MT-GLAZE	1.2K FA 1/16W	L1971	645 020 1776	INDUCTOR, 3.3U M
R7248TM	401 027 5502	CARBON	6.8K JA 1/6W	L211	645 020 1776	INDUCTOR, 3.3U M
R7251	401 230 2503	MT-GLAZE	1K FA 1/16W	L212	645 020 1776	INDUCTOR, 3.3U M
R7252	401 262 8306	MT-GLAZE	470 FA 1/16W	L2202	645 020 1776	INDUCTOR, 3.3U M
R7253	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	L2204	645 020 1776	INDUCTOR, 3.3U M
R7254	401 218 4505	MT-GLAZE	2.2K FA 1/16W	L3301	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R7256	401 105 0306 401 218 4406	MT-GLAZE MT-GLAZE	10 JA 1/16W 1.2K FA 1/16W	L3501	401 035 4306 645 008 4782	MT-GLAZE 10 JA 1/8W INDUCTOR,1.2U K
R7257 R7258TM	401 027 8602	CARBON	8.2K JA 1/6W	L3502 L3532	645 008 4782	INDUCTOR, 1.20 K INDUCTOR, 1.2U K
R7260	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	L3562	645 008 4782	INDUCTOR, 1.20 K
R7261	401 260 4706	MT-GLAZE	1.5K FA 1/16W	L3581	645 020 1776	INDUCTOR, 3.3U M
R7262	401 217 3905	MT-GLAZE	3.3K FA 1/16W	L431	645 026 1008	INDUCTOR, 3.3U M
R7263	401 219 1107	MT-GLAZE	1.8K FA 1/16W	L501	645 012 2255	INDUCTOR, 0.47U J
R7264	401 218 4505	MT-GLAZE	2.2K FA 1/16W	L502	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R7265	401 105 2706	MT-GLAZE	220 JA 1/16W	L503	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R7266	401 203 9805	MT-GLAZE	2.7K FA 1/16W	L504	401 035 4603	MT-GLAZE 100 JA 1/8W
R7267	401 262 8306 401 218 4505	MT-GLAZE MT-GLAZE	470 FA 1/16W 2.2K FA 1/16W	L506	401 036 9904 645 012 2255	MT-GLAZE 560 JA 1/8W INDUCTOR, 0.47U J
R7268 R7269	401 218 4503	MT-GLAZE	5.6K FA 1/16W	L507 L5102	645 020 1776	INDUCTOR, 3.3U M
R7281	401 105 2607	MT-GLAZE	22 JA 1/16W	L5102	645 020 1776	INDUCTOR, 3.3U M
R7283	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	L5201	645 020 1776	INDUCTOR, 3.3U M
R7286TM	401 024 7004	CARBON	1K JA 1/6W	L5251	645 002 5129	INDUCTOR, 0.47U M
R7288	401 105 2607	MT-GLAZE	22 JA 1/16W	L5252	645 002 5129	INDUCTOR, 0.47U M
R802	401 105 0603	MT-GLAZE	10K JA 1/16W	L5281	645 020 1776	INDUCTOR, 3.3U M
R803	401 105 0603	MT-GLAZE	10K JA 1/16W	L531		INDUCTOR, 0.47U J
R806	401 105 7909		0.000 ZA 1/16W	L532	401 035 4108	
R807 R808	401 105 0603 401 105 7909		10K JA 1/16W 0.000 ZA 1/16W	L533 L534	401 035 4108 401 035 4603	
R809	401 105 7909		0.000 ZA 1/16W	L534	401 035 4803	
R820	401 105 7909		0.000 ZA 1/16W	L537	645 012 2255	INDUCTOR, 0.47U J
R823	401 105 7909		0.000 ZA 1/16W	L561	645 012 2255	INDUCTOR, 0.47U J
R824	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	L562	401 035 4108	
R825	401 105 7909		0.000 ZA 1/16W	L563	401 035 4108	
R826	401 105 7909		0.000 ZA 1/16W	L564	401 035 4603	
R827	401 105 7909		0.000 ZA 1/16W	L566	401 036 9904	
R851	401 105 0603	MT-GLAZE	10K JA 1/16W	L567	645 012 2255	INDUCTOR, 0.47U J
R852 R853	401 105 0603 401 105 0405	MT-GLAZE MT-GLAZE	10K JA 1/16W 100 JA 1/16W	ь7271 ь7272	645 002 5129 645 002 5129	
R854	401 105 0405		100 JA 1/16W		045 002 3129	11,5001011,0.110 11
R856	401 105 0405	MT-GLAZE	100 JA 1/16W	DIODE		
R857	401 105 0405	MT-GLAZE	100 JA 1/16W	D1831		DIODE 1SS355-TE-17
R859	401 105 7909		0.000 ZA 1/16W	D1971		DIODE 188355-TE-17
R861	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	D2631 D2643	407 149 0807 407 149 0807	
R862	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	D2851	407 187 8209	
R863	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	D2852	407 187 8209	•
R864	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	D2853	407 187 8209	
R865 R866	401 105 0405 401 105 0405	MT-GLAZE MT-GLAZE	100 JA 1/16W 100 JA 1/16W	D2854	407 187 8209	
1 4000	401 TOO 0400	mi GHAAD	TOO OW TATOM			·

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D2861	407 209 7500	LED SML-210YT T86 L	ACCESSO	RIES	
	407 209 7401	LED SML-210YT-K-T86			
D2863	407 203 7803	LED SML-210LT T86 M		645 041 6019	ASSY, REMOCON CXGM
D2864	407 210 0200	LED SML-210PT T86 K		610 287 6901	RC-BATTERY LID-CXGM
	407 210 0101	LED SML-210PT-J-T86		610 288 4777	COVER, DUST-M4GA
D2865	407 203 7803	LED SML-210LT T86 M		645 042 2188	
D3301	407 149 0807	DIODE 1SS355-TE-17		645 042 2195	
	407 149 0807				
D3501		DIODE 1SS355-TE-17		645 013 8768	CABLE, S TERMINAL
D3851	407 179 1706	ZENER DIODE UDZ5.1B-TE-17			
D3882	407 149 0807	DIODE 1SS355-TE-17	OWNER'S MAN		
D451	407 149 0807	DIODE 1SS355-TE-17		(English)	
D471	407 149 0807	DIODE 1SS355-TE-17		610 291 0056	OWNER'S MANUAL-M4GA-A
D5001	407 149 0807	DIODE 1SS355-TE-17		(Germany)	
D5002	407 149 0807	DIODE 1SS355-TE-17		610 291 0094	OWNER'S MANUAL-M4GA-D-A
D5211	407 149 0807	DIODE 1SS355-TE-17		(French)	
D5221	407 149 0807	DIODE 1SS355-TE-17			OWNER'S MANUAL-M4GA-F-A
D5231	407 149 0807	DIODE 1SS355-TE-17		(Italian)	OWINER D PERSONE PROPERTY
					OVERTED LO MANTINE MACA T A
D5281	407 149 0807	DIODE 1SS355-TE-17			OWNER'S MANUAL-M4GA-I-A
D5282	407 149 0807	DIODE 1SS355-TE-17		(Spanish)	
D5283	407 149 0807	DIODE 1SS355-TE-17	۱.	610 291 0124	OWNER'S MANUAL-M4GA-E-A
D6612	407 004 0706	DIODE DCB015-TB	\triangle ac cord		
D6613	407 004 0706	DIODE DCB015-TB		(For USA, Can	ada)
D6801	407 149 0807	DIODE 1SS355-TE-17		645 002 9189	CORD, POWER-3.0MK
D6802	407 149 0807	DIODE 1SS355-TE-17		(For Europe,	Asia. Africa)
D6803	407 149 0807	DIODE 1SS355-TE-17			CORD, POWER-3.0MK
D851	407 149 0807	DIODE 1SS355-TE-17		045 002 5150	COMB, TOWER 5. OTH
DOST	407 149 0007	DIODE ISSUUDIE-II			
/ISCELLANE	EOUS				
SW6801	645 026 2791	SWITCH, PUSH 1P-1TX1	1		
SW6802	645 026 2791		İ		
SW6803	645 026 2791	SWITCH, PUSH 1P-1TX1	!		
SW6804	645 026 2791	SWITCH, PUSH 1P-1TX1			
SW6806	645 026 2791	SWITCH, PUSH 1P-1TX1	ļ		
SW6807	645 026 2791	SWITCH, PUSH 1P-1TX1			
SW6808	645 026 2791	SWITCH, PUSH 1P-1TX1			
SW6809	645 026 2791	SWITCH, PUSH 1P-1TX1			
SW6871	645 026 2791	SWITCH, PUSH 1P-1TX1			
X1951	645 037 9352	OSC, CRYSTAL 24.000MHZ			
	645 036 3788	OSC, CRISTAL, 16.000MHZ			
X1961					
X2881	645 025 4468	OSC, CRYSTAL 3.579545MHZ	[·		
X3801	645 021 1218	OSC, CERAMIC 8.00MHZ			•
	645 037 5187	OSC,CERAMIC 8.00MHZ			
X3841	645 021 1218	OSC, CERAMIC 8.00MHZ			
	645 037 5187	OSC, CERAMIC 8.00MHZ			
X3861	645 024 8566	OSC, CERAMIC 6.00MHZ			
		OSC, CERAMIC 6.00MHZ			
X5101		OSC, CRYSTAL 24.576MHZ	l .		
エハエハエ	043 037 4023	OSC, CRISIAN 24.3/OPHIA			
40 007 55	NEO ACOVEDINE	TEMP MAYON			
AA0B10C2	-	3,TEMP MK6A			
NTEGRATEI		TC IM76CHMY-E			
IC1832	409 481 8602	IC LM76CHMX-5			
CAPACITOR	403 205 7803	TA-SOLID 2.2U M 16V	l		
		CERAMIC 120P J 50V	l		
C1833	403 011 3400		Ī		
C1833 C1871TM	403 011 3402		i		
C1833	403 011 3402 403 155 1609	CERAMIC 33P J 50V			
C1833 C1871TM C1872TM					
C1833 C1871TM C1872TM	403 155 1609	CERAMIC 33P J 50V	. 1		
C1833 C1871TM C1872TM RESISTOR R1871	403 155 1609 401 105 0306	MT-GLAZE 10 JA 1/16W			
C1833 C1871TM C1872TM RESISTOR R1871 R1872	403 155 1609 401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W			
C1833 C1871TM C1872TM RESISTOR R1871 R1872 R1873	403 155 1609 401 105 0306 401 105 0306 401 105 0603	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W MT-GLAZE 10K JA 1/16W			
C1833 C1871TM C1872TM RESISTOR R1871 R1872	403 155 1609 401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W MT-GLAZE 10K JA 1/16W			

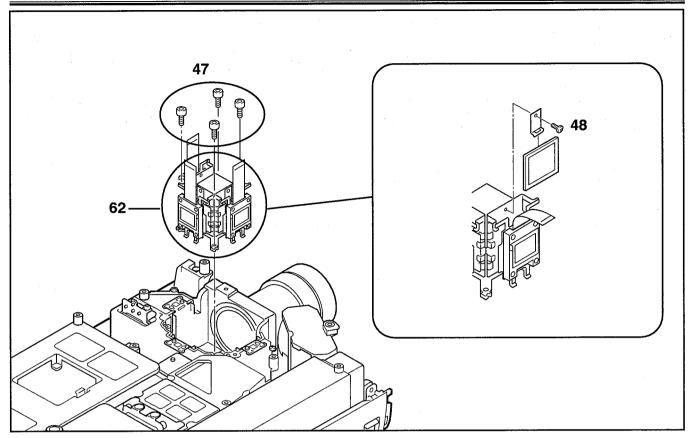
■ Mechanical Parts List

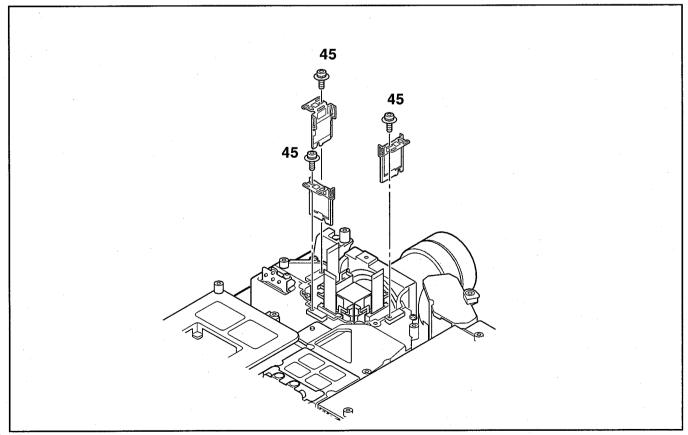
Note: Parts order must contain Chassis No., Part No., and Descriptions.

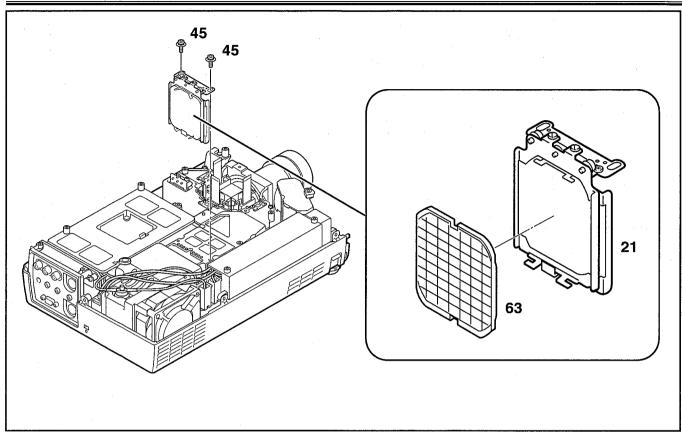


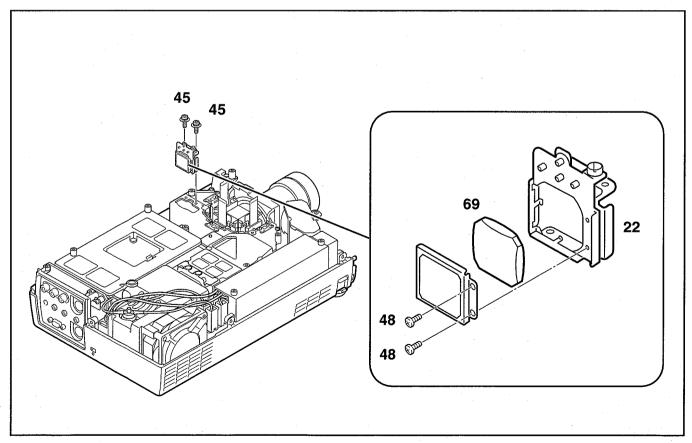
Mechanical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
CABINET PARTS			31	610 286 8364	MOUNTING DUCT TOP BLUE-MK
1	610 288 4548	COMPL, CABINET TOP-M4GA	32	610 286 9804	SPACER SHEET*LP R-MK6A
	(Including Ke	y No. a to e)	33	610 286 9811	SPACER SHEET*LP L-MK6A
a	411 025 3806	SCR S-TPG BIN 2X4	34	610 287 7793	SPACER SHEET*L.F-MK6A
b	610 285 8730	ASSY, BUTTON P-MK6A	35	610 285 1373	OPTICAL BASE BTM-MK6A
С	610 288 4722	BUTTON-M4GA	. 36	610 285 1380	OPTICAL BASE TOP-MK6A
đ	610 288 4746	CABINET TOP-M4GA			
е	610 285 7580	DEC INLAY-MK6A			
2	610 288 4708	COMPL, CABINET BTM-M4GA	SCREWS-CA		
	(Including Ke	ey No. f, g)	41	411 025 6500	SCR S-TPG BIN 3X8
f	411 031 9304	SCR BIN 3X8	42	411 031 9304	
g	610 288 4760	COVER, LP-M4GA	43	411 077 9009	SCR TPG FLT 3X8
3	610 288 4715	ASSY, STAND LEG-M4GA			
4	610 288 4739	CABINET FRONT-M4GA			
5 .	610 285 7559	CAP LENS-MK6A	SCREWS-CH		
6	610 288 4807	DEC AV SHEET-M4GA	44	412 058 5409	SPECIAL SCREW
7	610 286 6391	DEC SHEET-MK6A	45	411 181 4303	BOLT HEX-SCT+SW+W 2.5X5
8	610 285 7634	FILTER BASE L-MK6A	46	411 025 5206	SCR S-TPG BIN 3X10
9	610 285 7641	FILTER BASE R-MK6A	47	411 026 7704	SCR S-TPG PAN 3X6
10	610 290 4628	HOLDER SENSOR-MK6A	48	411 030 5703	SCR BIN 2X4
11	610 288 4814	PANEL AV-M4GA	49	411 001 8702	SCR BIN 3X6
			50	411 001 8900	SCR BIN 3X8
			51	411 033 3003	SCR FLT 2X4
CHASSIS PA	RTS				
21	610 285 8457	COMPL, MOUNTING INT-MK6A			
22	610 285 8464	COMPL, MOUNTING LENS-MK6A			
23	610 285 6736	HOLDER LP PWB-MK6A			
24	610 285 6743	HOLDER POWER PWB B-MK6A			
25	610 285 6750	HOLDER POWER PWB T-MK6A			
26	610 285 6767	HOLDER AC-MK6A			
27	610 285 6781	HOLDER L.F PWB B-MK6A			
28	610 286 9378	HOLDER L.F PWB T-MK6A			
29	610 285 8525	MOUNTING DUCT TOP-MK6A			
30	610 290 2082	MOUNTING DUCT BTM-M4GA			



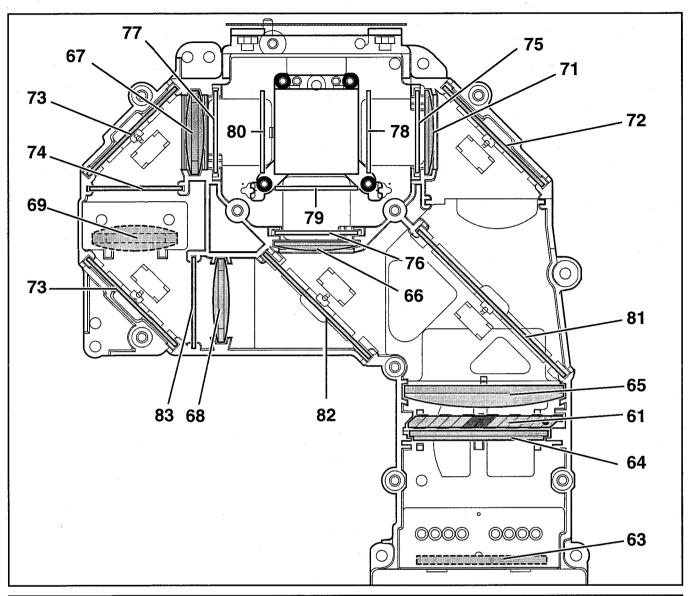


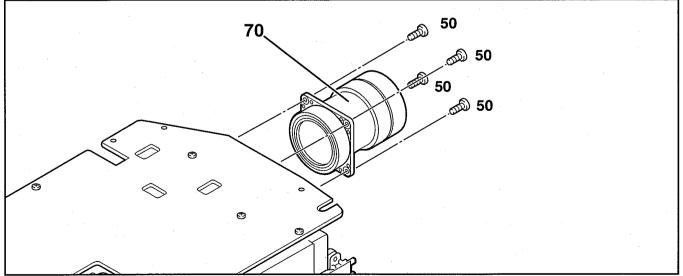




■ Optical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

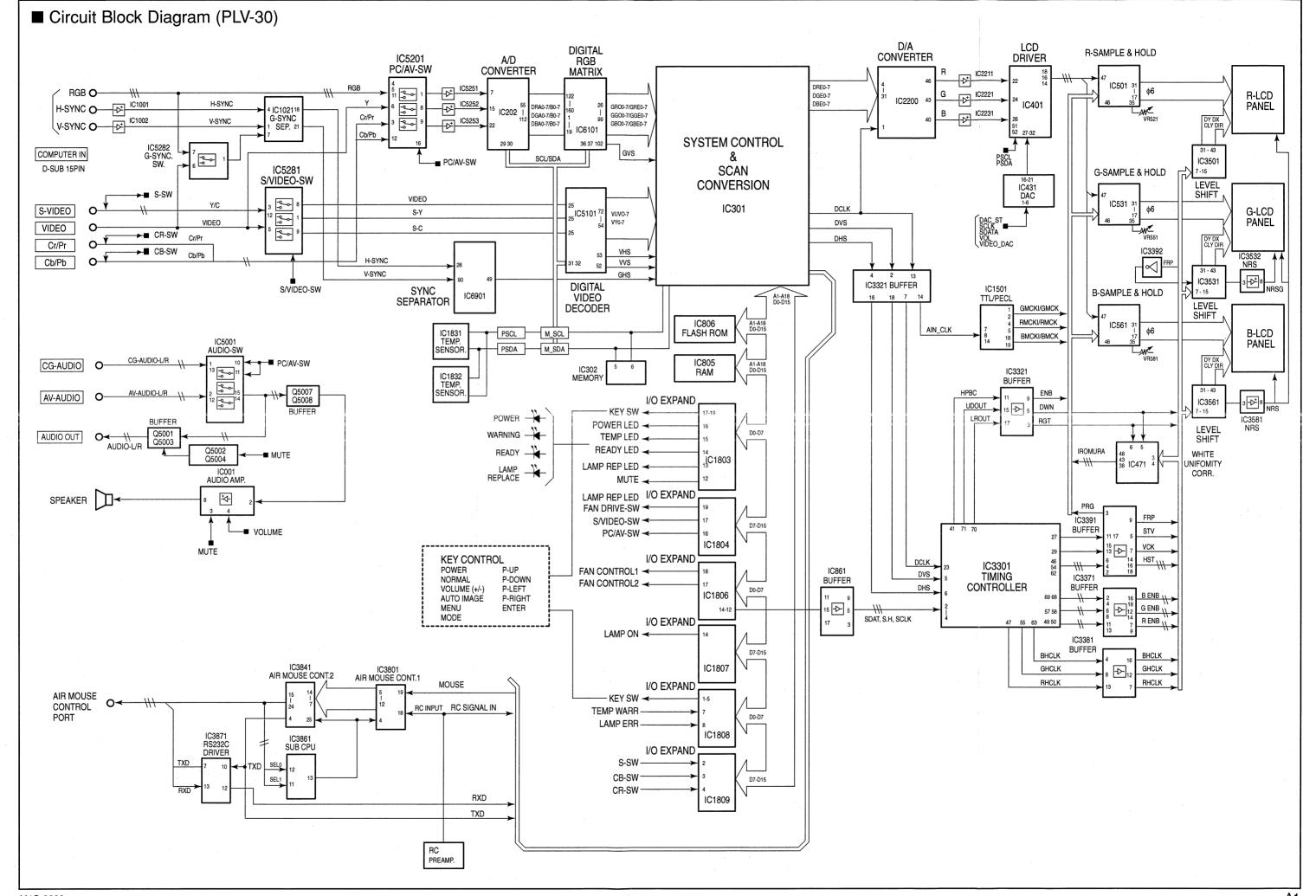


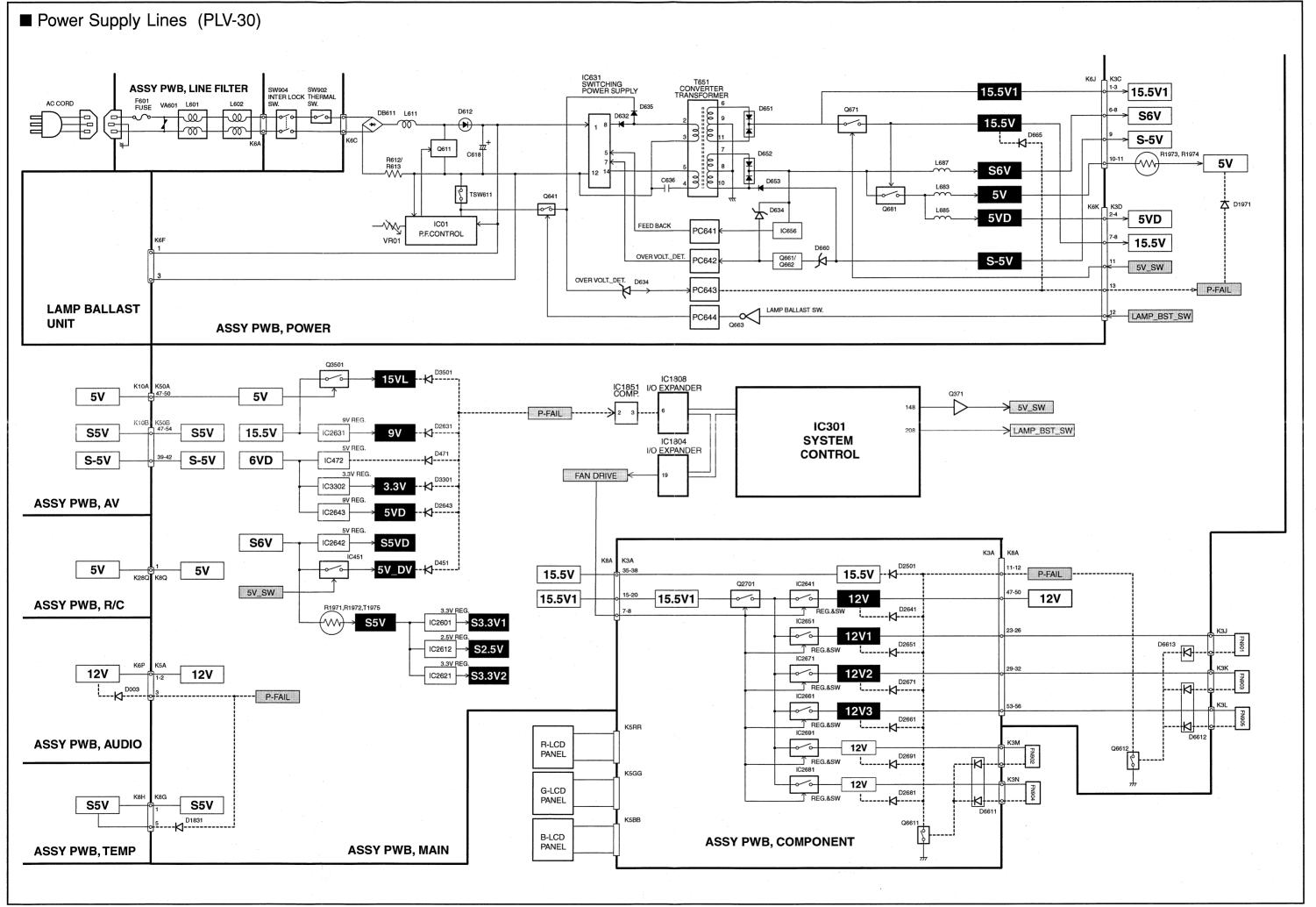


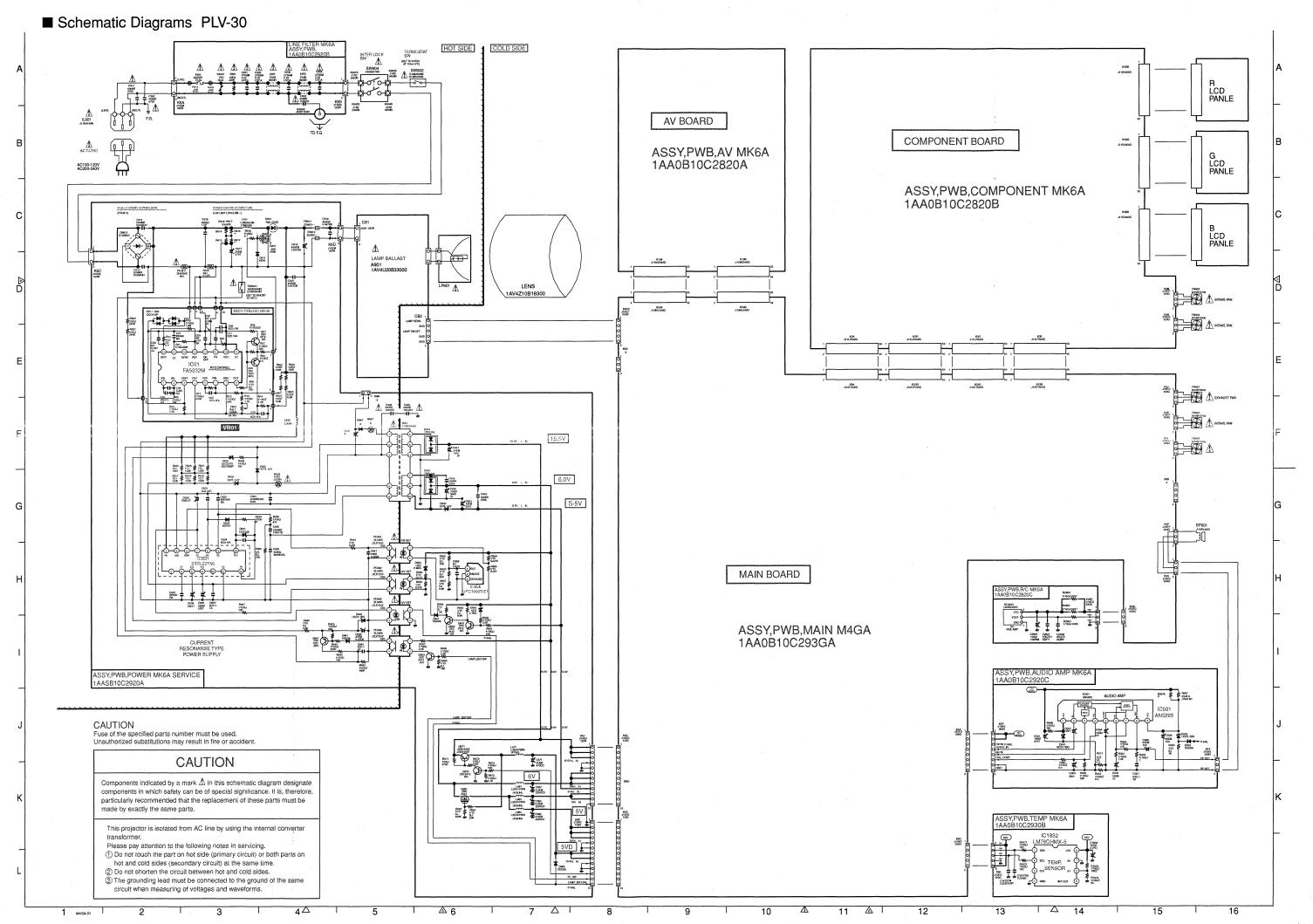
Key No.	Part No.	Description	Key No.	Part No.	Description
OPTICAL PAR	TS				
61	645 041 5104	ASSY, PRISM (PBS)	74	645 041 5081	OPTICAL FILTER (UV CUT)
or	645 044 2452	ASSY, PRISM (PBS)	75	645 045 2338	POLARIZED GLASS(OUT/R)SA
62	610 289 3816	ASSY, LCD PNL/PRISM-MK6A	76	645 045 2345	POLARIZED GLASS(OUT/G)SA
	(Including R,G,B LCD Panels and Key No.		77	645 045 2352	POLARIZED GLASS(OUT/B)SA
	48, 78, 79, 8	0)	78	645 044 1059	POLARIZED GLASS(IN/R)SA
63	645 041 5005	LENS, INTEGRATOR (IN)	79	645 044 1066	POLARIZED GLASS(IN/G)SA
64	645 041 5012	LENS, INTEGRATOR (OUT)	80	645 044 1073	POLARIZED GLASS(IN/B)SA
. 65	645 041 5029	LENS, CONDENSER (OUT)	81	645 044 1004	DICHROIC MIRROR (R)
66	645 041 5036	LENS, CONDENSER	82	645 044 1011	DICHROIC MIRROR (G)
67	645 041 5043	LENS, CONDENSER(B)	83	645 044 0526	OPTICAL FILTER (RG)
68	645 041 5050	LENS, RELAY(IN)			
69	645 041 5067	LENS, RELAY (OUT)			
70	645 044 3015	LENS, PROJECTION			
71	645 044 0564	LENS, CONDENSER (RV)			
72	645 041 5494	MIRROR(R)			
73	645 041 5500	MIRROR(B)			

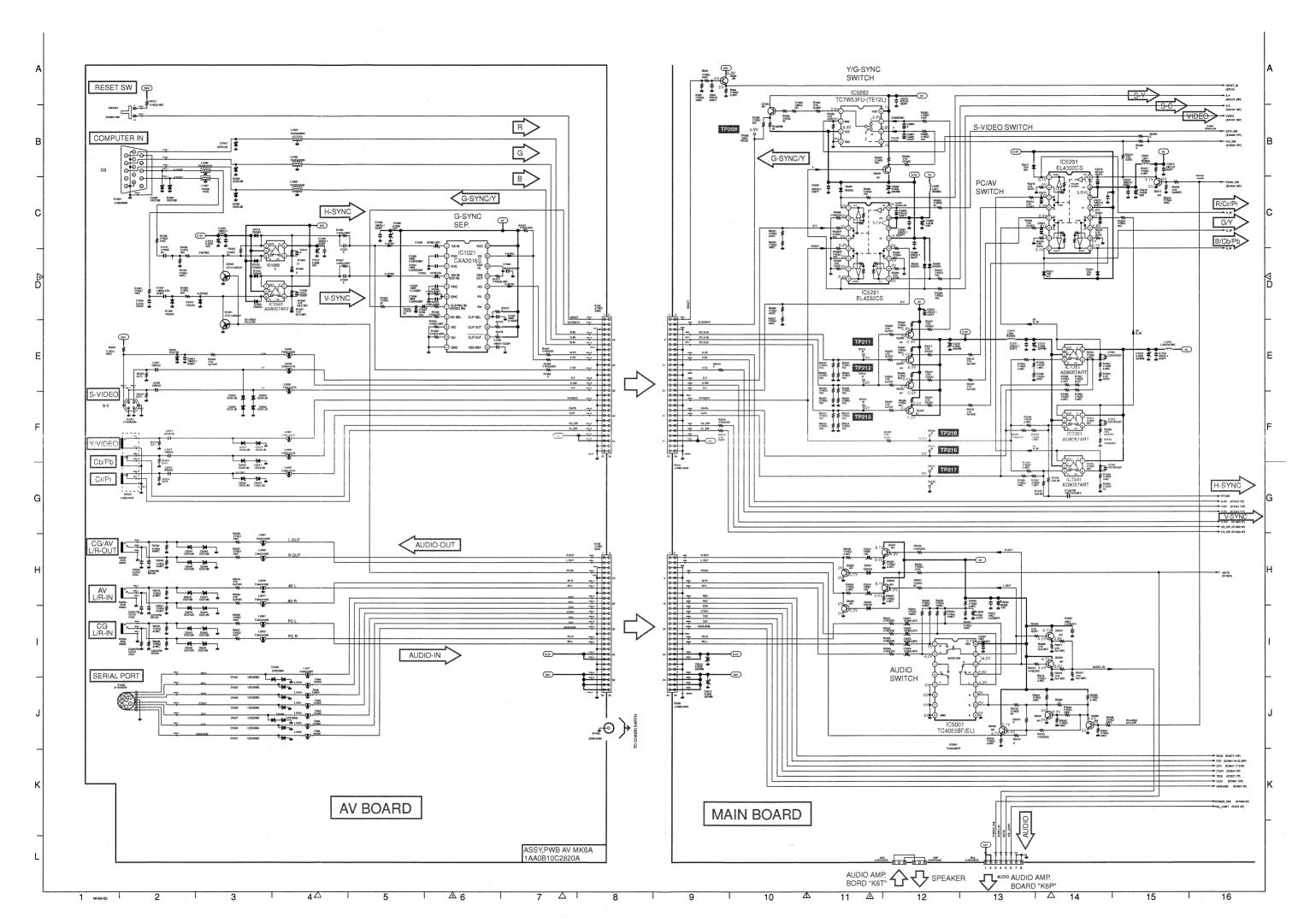
CAUTION:

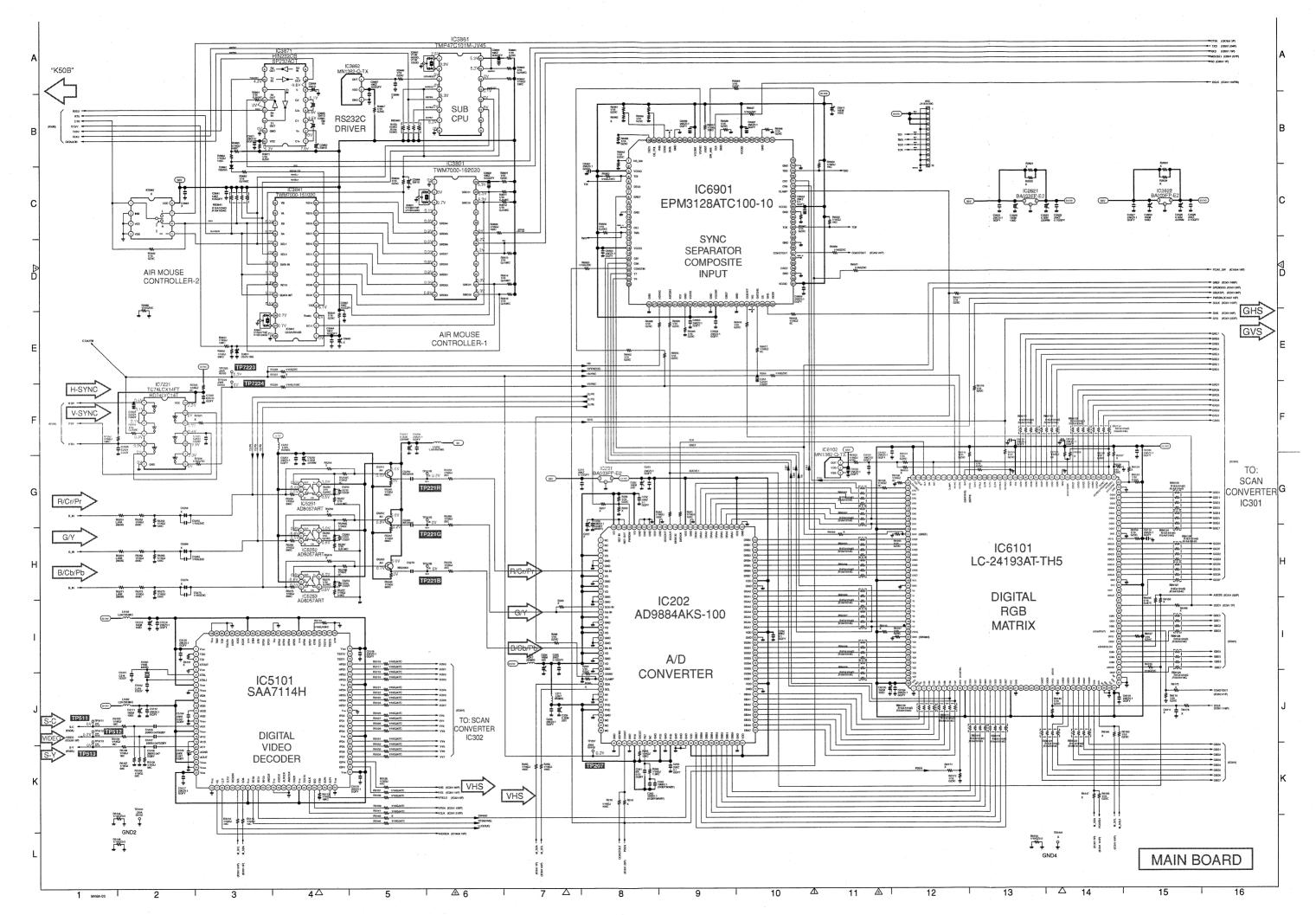
Part must be placed in specified direction when replacing the optical parts. Please see "Optical Parts Disassemblies" for further instructions.

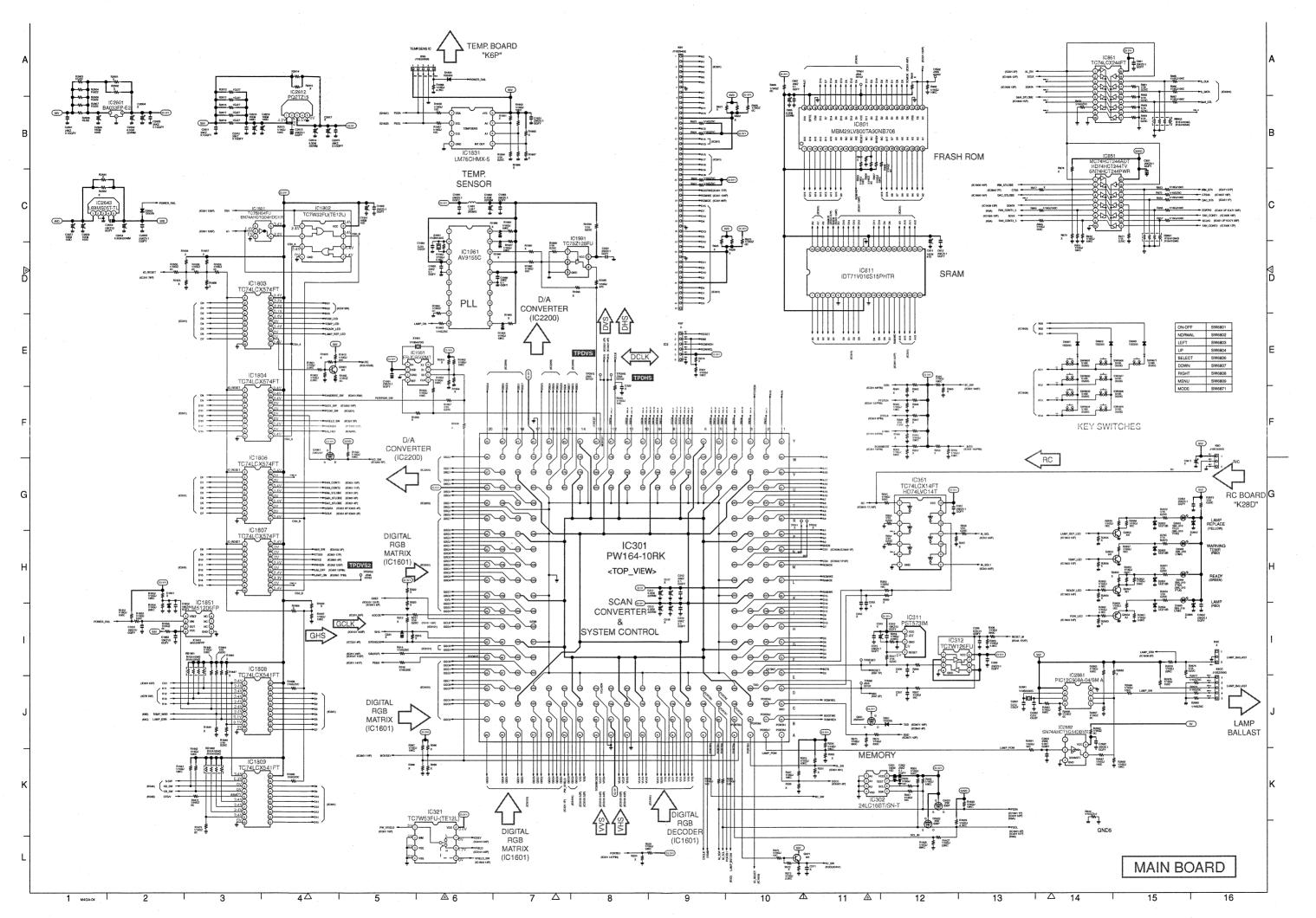


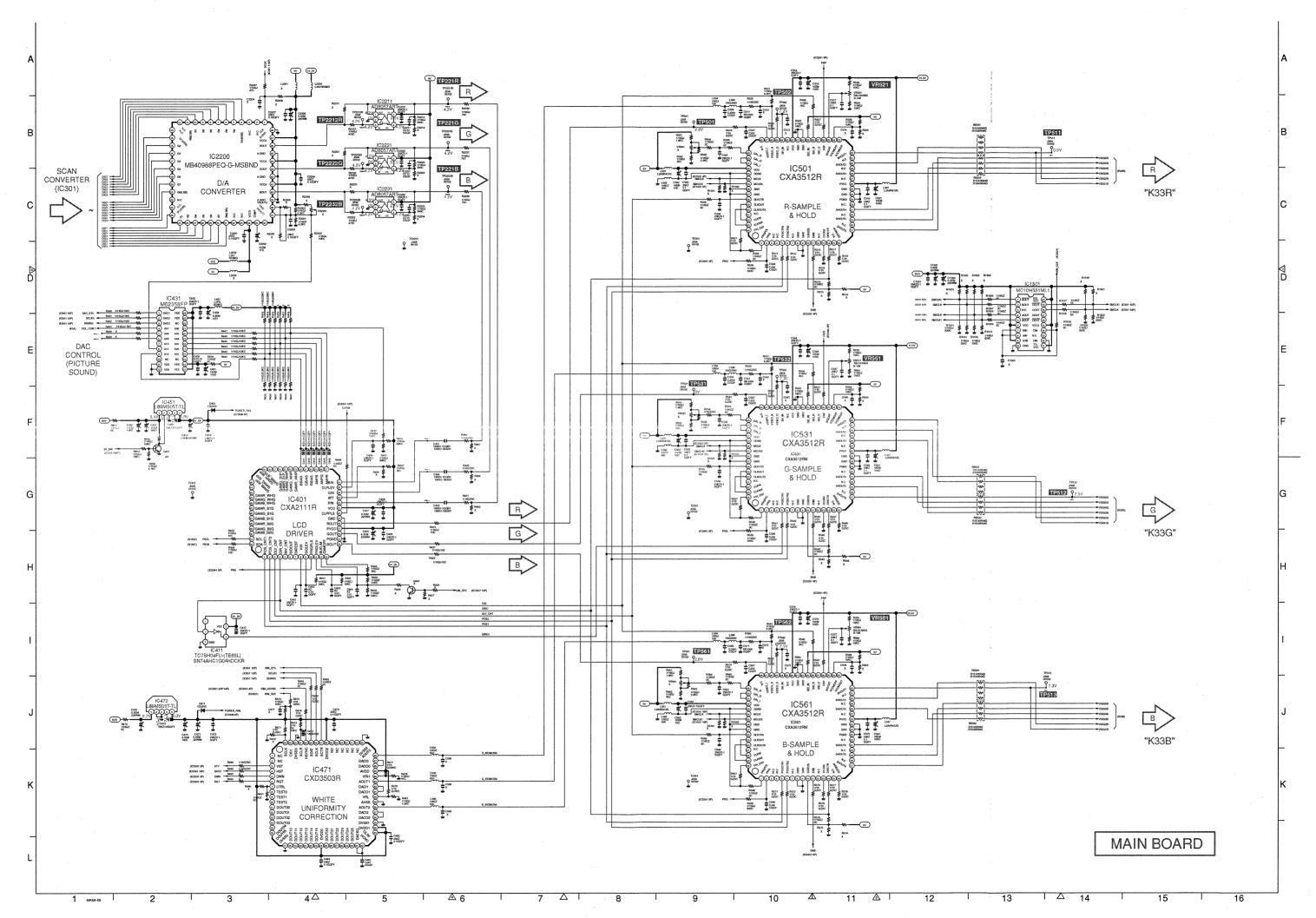


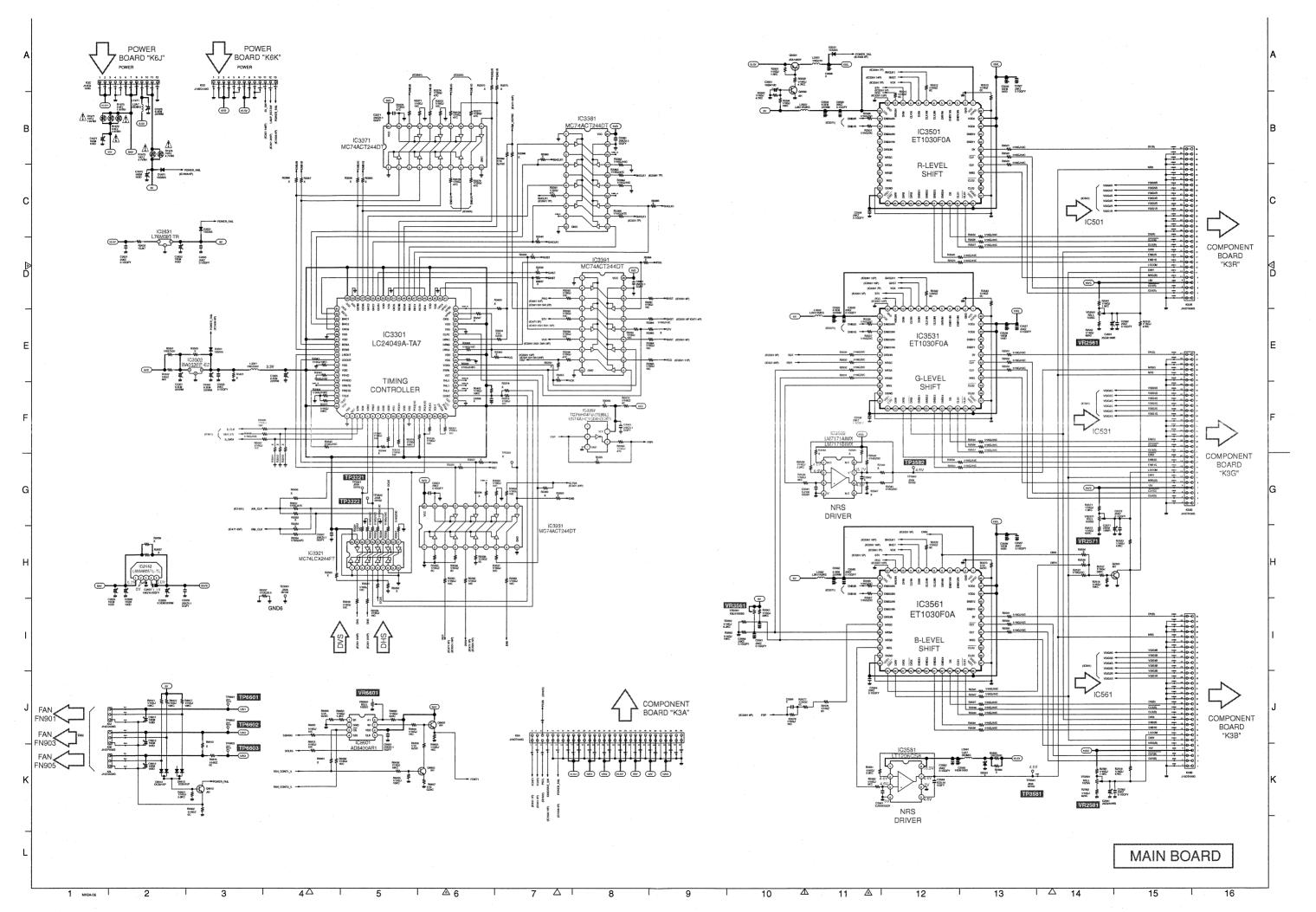


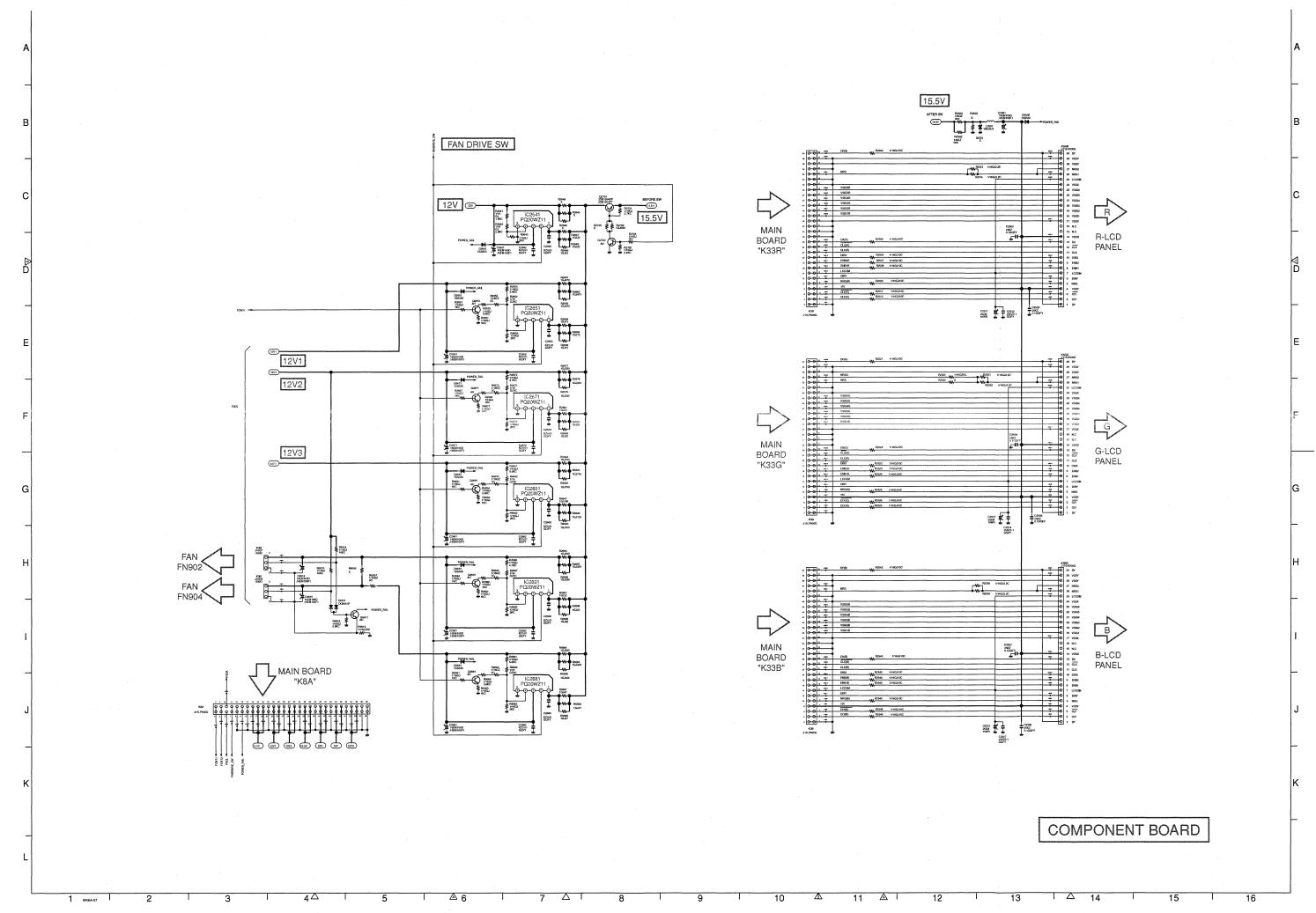












■ Printed Wiring Board Diagrams (PLV-30)

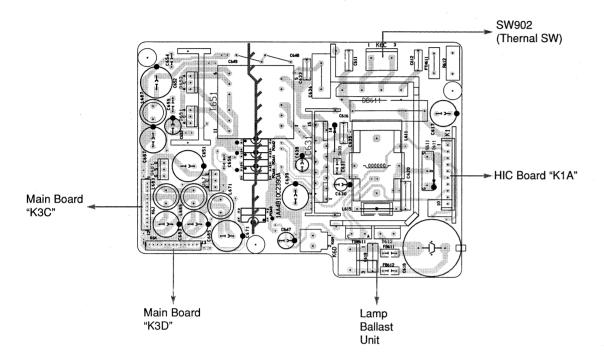
⚠ CAUTION

This projector is isolated from AC line by using the internal converter transformer.

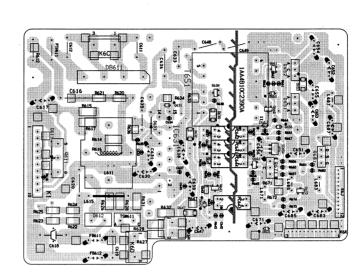
- Please pay attention to the following notes in servicing

 1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the come time.
- 2. Do not shorten the circuit between hot and cold sides.
- The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

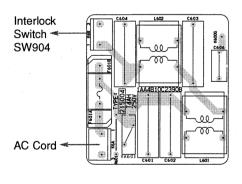
Power Board (SIDE:A)



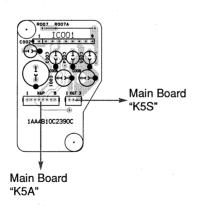
Power Board (SIDE:B)



Line Filter Board (SIDE:A)

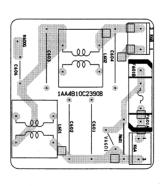


Audio Amp Board (SIDE:A)

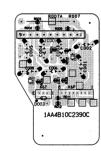


Temp Board (SIDE:A)

Line Filter Board (SIDE:B)



Audio Amp Board (SIDE:B)



HIC Board (SIDE:A)

Main Board "K1"

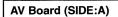


HIC Board (SIDE:B)



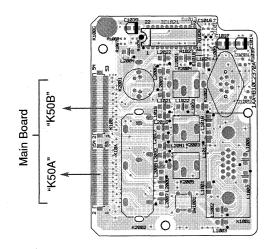
Temp Board (SIDE:B)

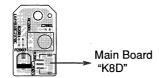




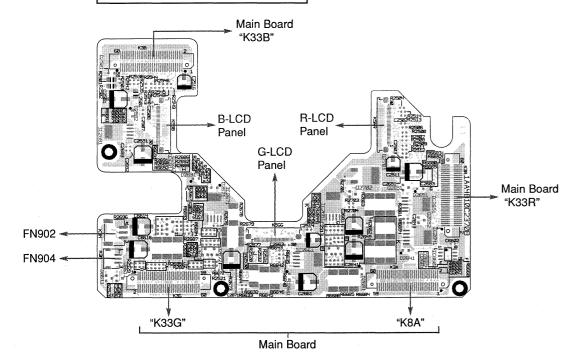
R/C Board (SIDE:A)

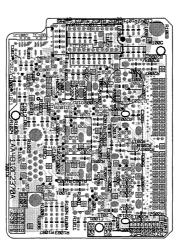
R/C Board (SIDE:B)





Component Board (SIDE:A)

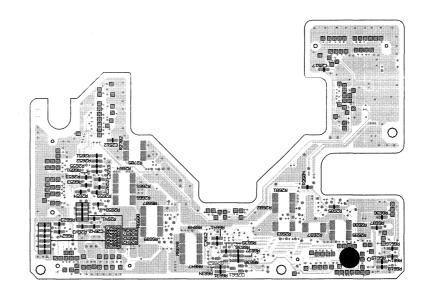




AV Board (SIDE:B)



Component Board (SIDE:B)



Main Board (SIDE:A)

